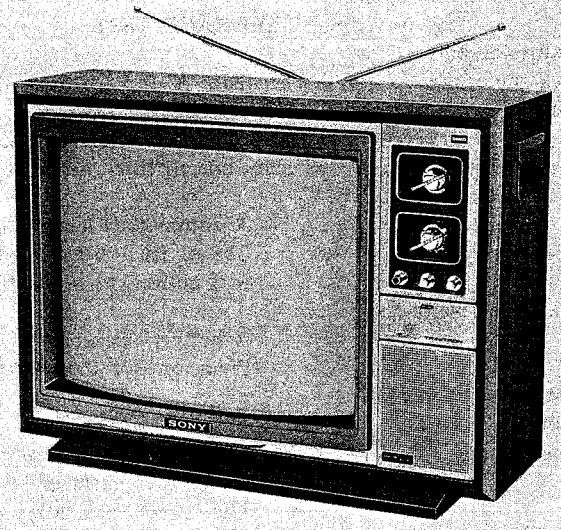
KV-2101

USA Model

Chassis No. SCC-100D-A



Note: Telescopic dipole antenna is an optional accessory.

TRINITRON® COLOR TV

SPECIFICATIONS

Television System:	American TV standards
Color System:	NTSC
Picture Tube:	53.3 cm, 21" (measured diagonally), 114° deflection TRINITRON system
Semiconductors:	1 FET, 34 transistors, 40 diodes, 8 ICs and 1 GCS (Gate Controlled Switch)
Antennas:	VHF: 300 Ω balanced (telescopic dipole) 75 Ω unbalanced (including slide switch) UHF: 300 Ω balanced (loop antenna *) * **Note:** Supplied with accessories
Channel Coverage:	VHF channels: 12 – 13 UHF channels: 14 – 83 (70-position detent tuner)
Intermediate Frequencies:	Picture i-f carrier: 45.75 MHz Color subcarrier: 42.17 MHz Sound i-f carrier: 41.25 MHz
Sound System:	4.5 MHz intercarrier Output power: 2 W (at 10% harmonic distortion) Speaker: 10 cm (4 inches) dia, 8 Ω
Video System:	RGB cathode drive
Automatic Controls:	ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) ADG (automatic degaussing) AFC (automatic frequency control) AFT (automatic fine tuning) AGC (automatic gain control) ANC (automatic noise canceller) AVR (automatic voltage regulator)
Anode Voltage:	25 kV at zero beam current
Power Requirements:	120 V ac, 60 Hz
Power Consumption:	165 W (max)
Dimensions:	702 (w) x 510 (h) x 414 (d) mm 27 5/8 (w) x 20 1/8 (h) x 16 1/4 (d) inches
Net Weight:	35 kg (77 lb 3 oz)
Accessories:	Earphone (ME-20B) UHF loop antenna (AN-15)

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

X-RAY RADIATION WARNING!!

REPLACE COMPONENTS IDENTIFIED ON THE SCHEMATIC DIAGRAMS BY SHADING WITH SONY PARTS HAVING THE PART NUMBERS GIVEN IN THIS MANUAL, OR APPROVED SUPPLEMENTS, ONLY. CHECK HIGH VOLTAGE USING THE VALUE AND OPERATING CONDITIONS SHOWN ON THE SCHEMATIC DIAGRAM.

SONY®

SERVICE MANUAL

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.

8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground must not exceed 0.2 mA (200 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.3 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A.)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most a-c outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60 – 100 watt trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line. The lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B.)

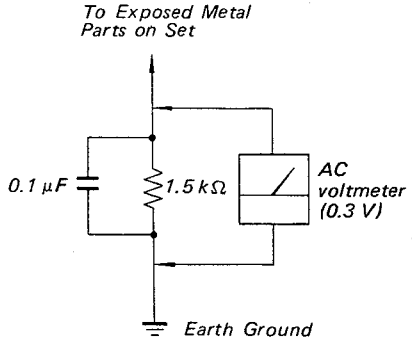


Fig. A. Using an AC voltmeter to check AC leakage.

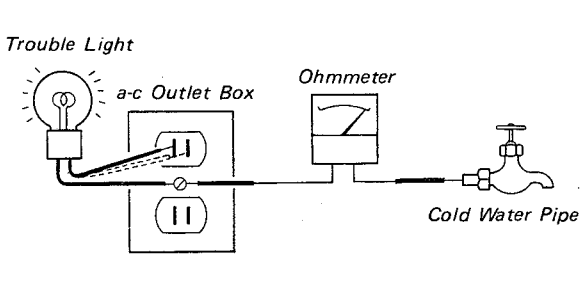
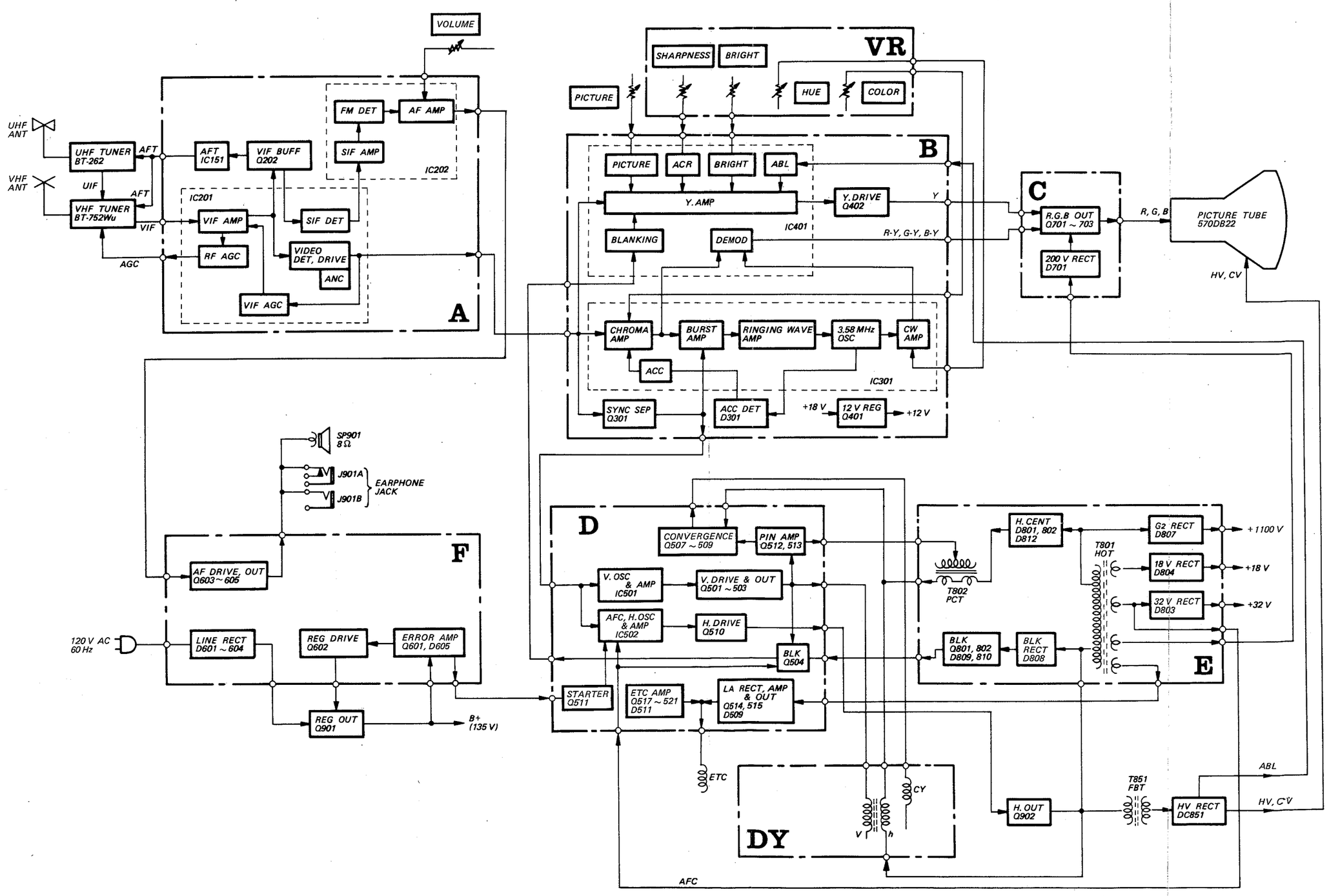


Fig. B. Checking for earth ground.

SECTION 1
BLOCK DIAGRAM



SECTION 2

DISASSEMBLY AND REPLACEMENT

Note: All screws in this set are Phillips (cross recess) type unless otherwise noted.

2-1. PICTURE TUBE REMOVAL

Perform the procedures in numerical order as shown in Fig. 2-1.

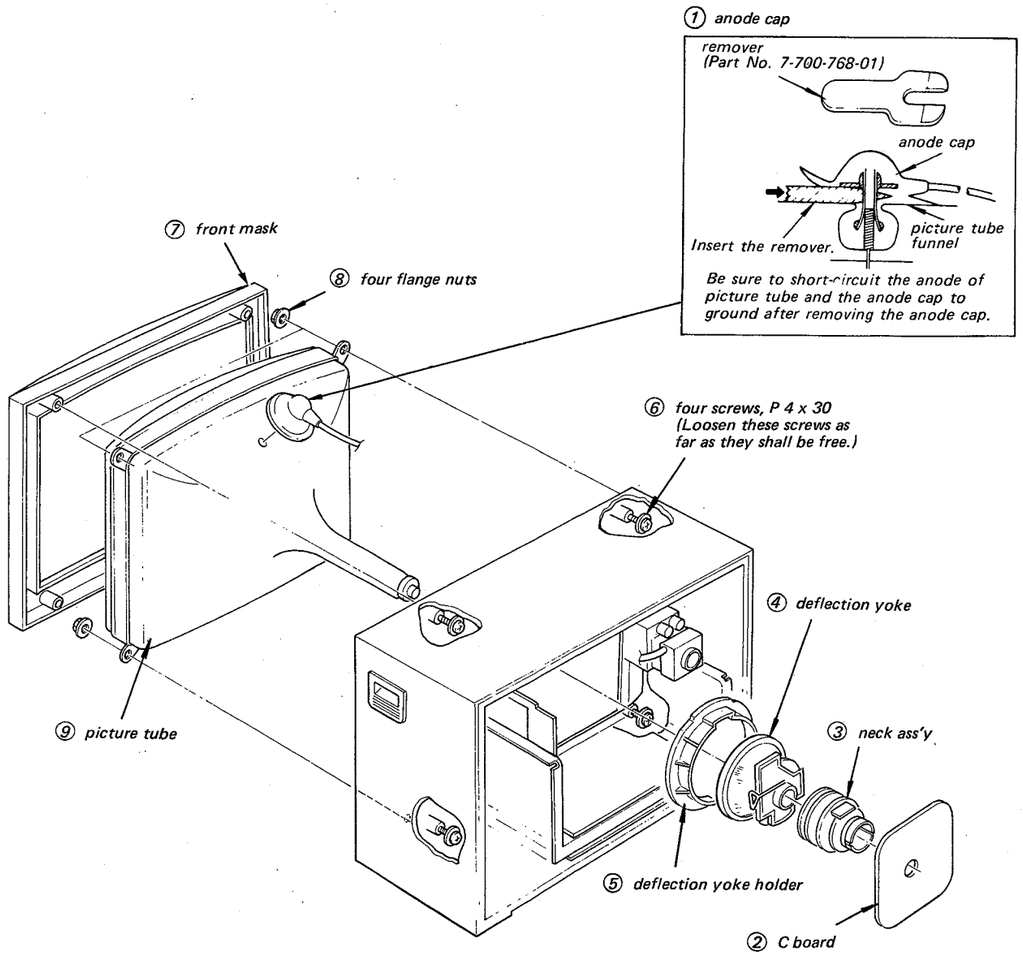


Fig. 2-1. Picture tube removal

2-2. CHASSIS REMOVAL

Note: *When removing the rear cover or the chassis, take out all the screws marked ⇒ on it.*

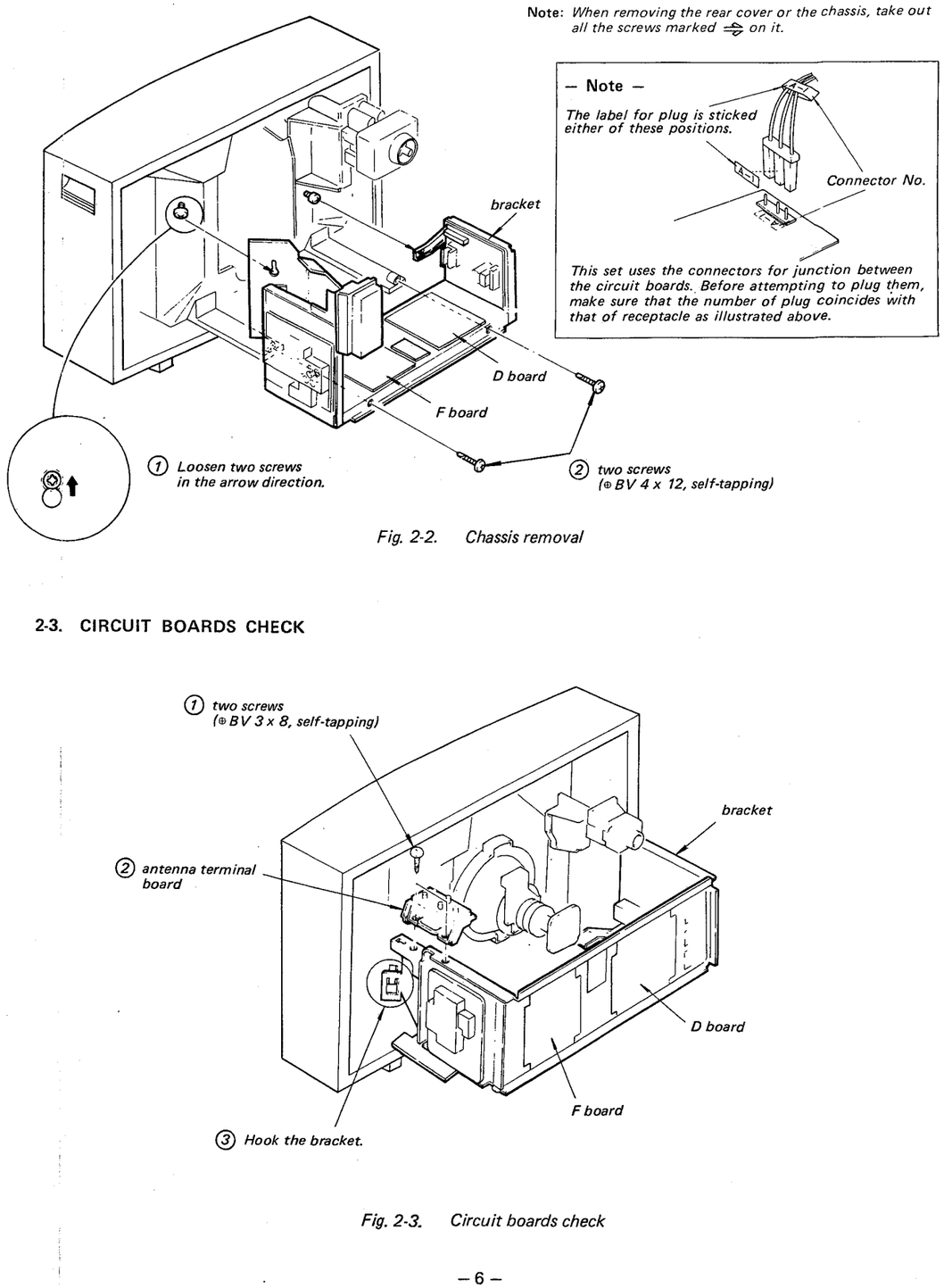


Fig. 2-2. Chassis removal

2-3. CIRCUIT BOARDS CHECK

Fig. 2-3. Circuit boards check

2-4. UHF TUNER DIAL CALIBRATION

Perform the procedures in numerical order as shown in Fig. 2-4.

1. Turn the tuner shaft fully counterclockwise.
2. Set the digits on the dial drums as shown, and then fix it with cellophane tape.
3. Mesh the dial drum with the skip gear.
4. Install the compression spring on the drum shaft.
5. Install the dial drums together with the skip gear so that the two digits "14" come between the two tabs, as shown.
6. Tighten the screw (⊕ BV 3 x 8, self-tapping).
7. Install the UHF tuner with three screws (PS 3 x 5). Note that the two projections on the tuner should meet with the openings on the tuner chassis bracket.
8. Insert and mesh the drive gear with the dial drum gear, and then remove the cellophane tape.

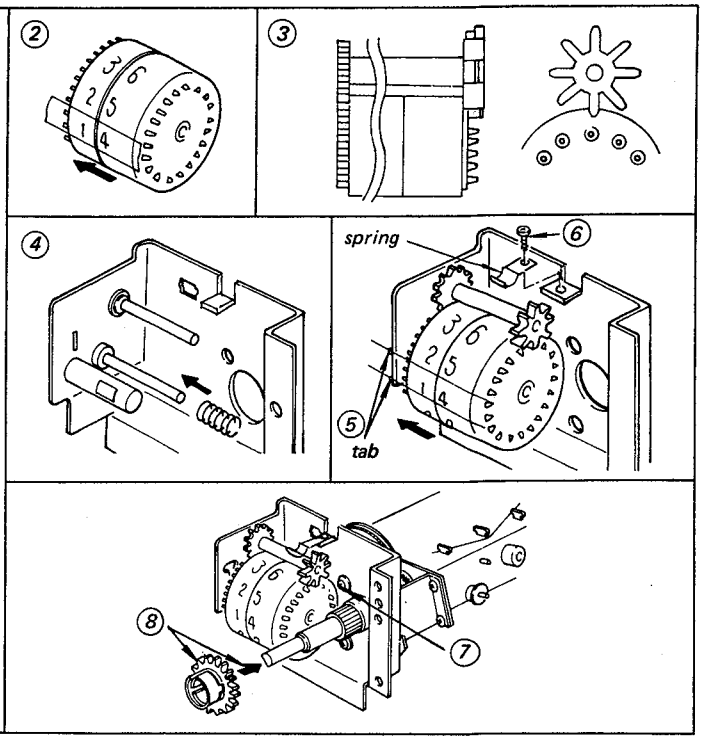


Fig. 2-4. UHF tuner dial calibration

2-5. CIRCUIT BOARDS LOCATION

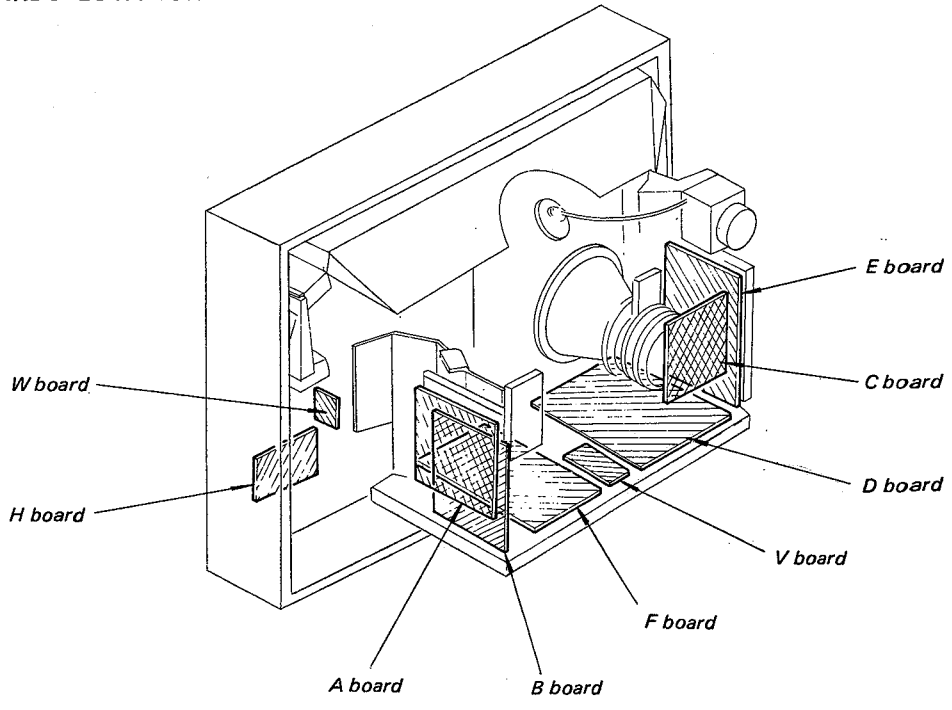


Fig. 2-5. Circuit boards location

SECTION 3

SETUP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

Controls and switches should be set as follows:

PICTURE control, BRIGHT control ..... maximum (fully clockwise)
AUTO, AFT switches ..... ON

Perform the adjustments in order as follows:

1. Beam Landing Adjustment
2. Convergence Adjustment
3. White Balance Adjustment

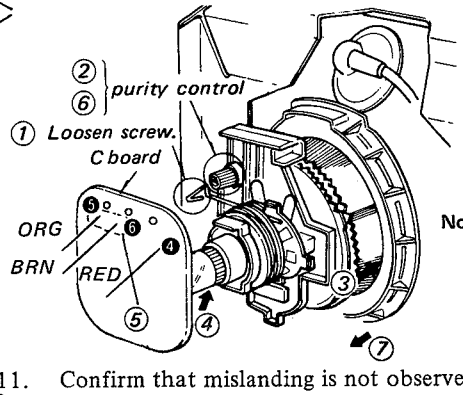
Note: Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

3-1. BEAM LANDING ADJUSTMENT

Preparation:

- Receive the crosshatch pattern signal.
- Before starting this adjustment, demagnetize the whole screen securely with degausser.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 3-1.
3. Slide deflection yoke forward as far as it will go.
4. Position neck ass'y as shown in Fig. 3-2.
5. Disconnect leads ❺ and ❻ on the C board.
6. Adjust purity control to center vertical red band as shown in Fig. 3-3.
7. Slide deflection yoke backward for a uniform red screen.
8. Check green and blue rasters for uniformity. Repeat the Steps 5, 6 and 7.
   To get a uniform green screen,
   ... Connect lead ❻ on the C board.
   Disconnect leads ❹ and ❺ .
   To get a uniform blue screen,
   .... Connect lead ❺ on the C board.
   Disconnect leads ❹ and ❻.
   After these checks, connect the leads ❹ , ❺ and ❻.
9. Tighten the deflection yoke screw.
10. Check if mislanding appears at corners a~d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.



Note: *Circled numbers indicate steps of Procedure.*

11. Confirm that mislanding is not observed although the receiver is faced in any direction.

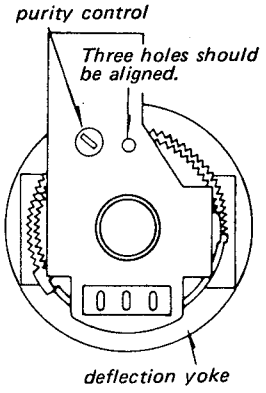


Fig. 3-1.

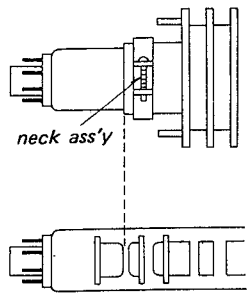


Fig. 3-2.

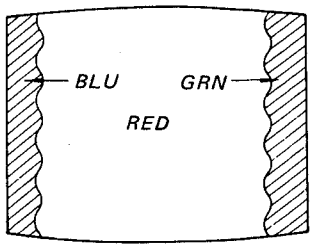


Fig. 3-3.

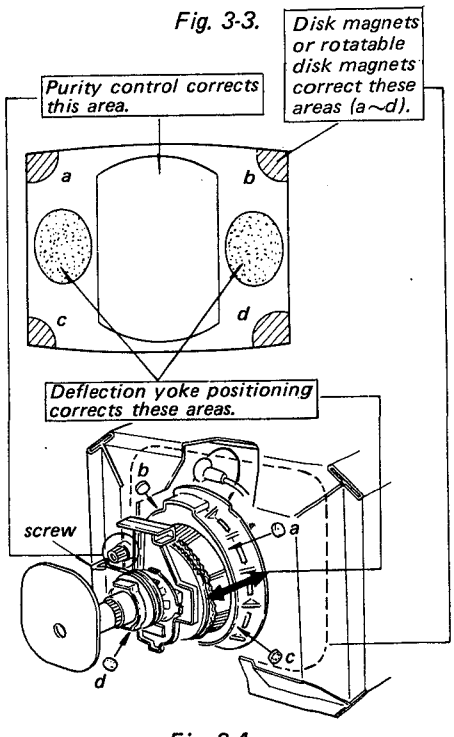


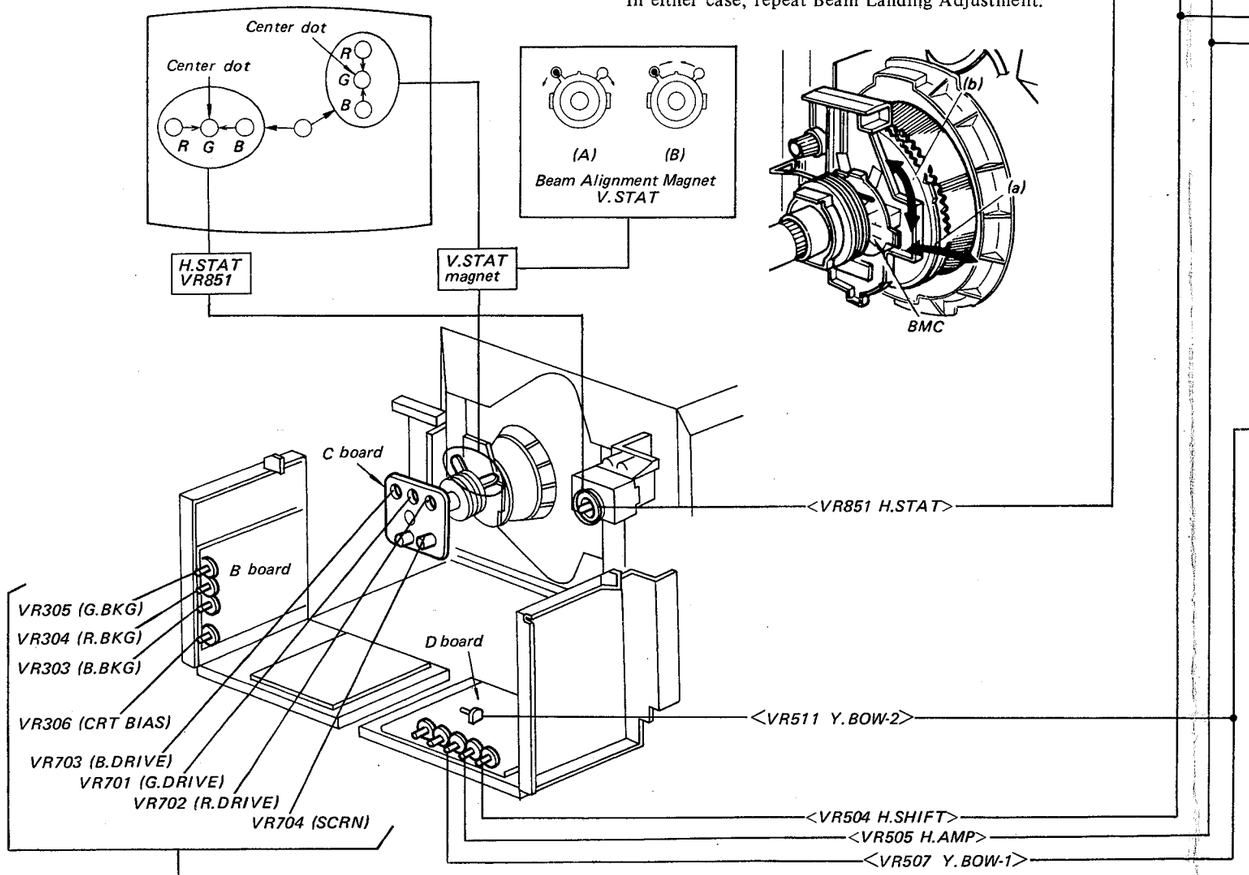
Fig. 3-4.

3-2. CONVERGENCE ADJUSTMENT

Preparation:

- Before starting this adjustment, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Turn BRIGHT control fully counterclockwise.
- Receive the dot pattern signal.

(1) Horizontal Static Convergence and Vertical Static Convergence Adjustments



If blue dot does not coincide with red and green dots, perform following Steps.

BMC magnet (a) movement corrects insufficient H. static convergence.

BMC magnet (b) rotation corrects insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

3-3. WHITE BALANCE ADJUSTMENT

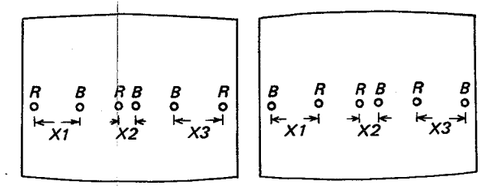
Receive the crosshatch pattern signal.

1. Turn BRIGHT and PICTURE controls fully counterclockwise.
2. Turn VR701 (G.DRIVE), VR702 (R.DRIVE) and VR703 (B.DRIVE) fully clockwise.
3. Set VR303 (B.BKG), VR304 (R.BKG), VR305 (G.BKG) and VR306 (CRT.BIAS) to mechanical center.
4. Turn VR704 (SCRN) slowly to obtain a faintly visible crosshatch. Memorize the color which becomes visible first by turning VR704. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) at faintly visible screenlight.
6. Turn BRIGHT and PICTURE controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

(2) Dynamic Convergence Adjustment

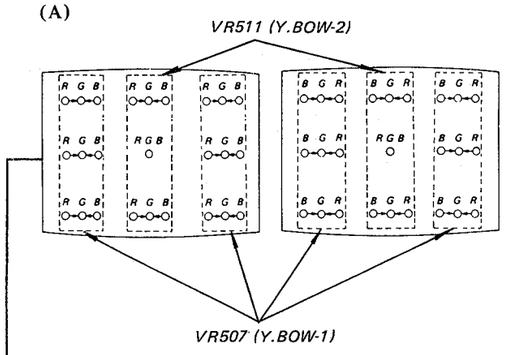
[Misconvergence at Both Sides of Screen.]

1. Controls should be set as follows:
   VR504 (H.SHIFT)..... mechanical center
   VR505 (H.AMP), VR507 (Y.BOW-1) .....
   .....fully clockwise
   VR511 (Y.BOW-2).....fully counterclockwise
2. Adjust VR851 so that green and blue dots coincide at center of screen.
3. Adjust VR504 so that X1 is equal to X3.
4. Adjust VR505 so that X2 is equal to X3.
5. Repeat above steps 1 through 4 two or three times.

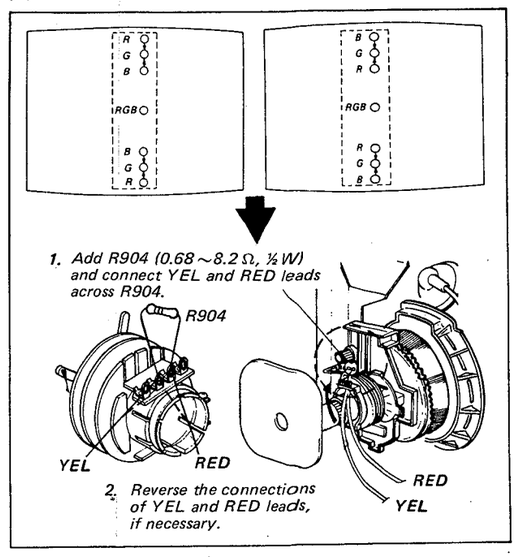


[Top and Bottom Misconvergence]

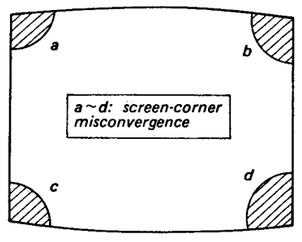
(A)

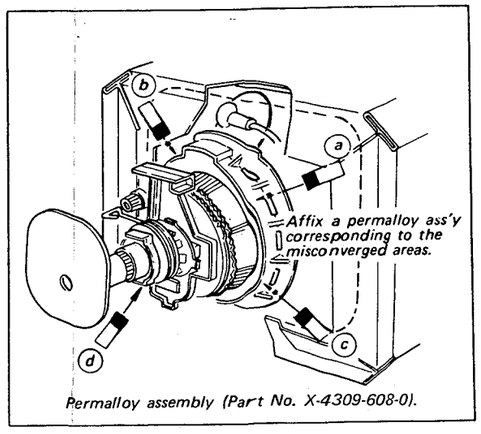


(B)



(3) Screen-corner Convergence Adjustment





Permalloy assembly (Part No. X-4309-608-0).

SECTION 4

CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Color-bar/pattern generator

(2) RECEIVING SIGNAL

When performing these adjustments, receive any of a crosshatch signal, a color-bar signal or an off-the-air signal.

(3) CONTROL SETTING FOR CHECK AND ADJUSTMENTS

Controls and switches should be set as follows when performing checks and adjustments unless otherwise noted.

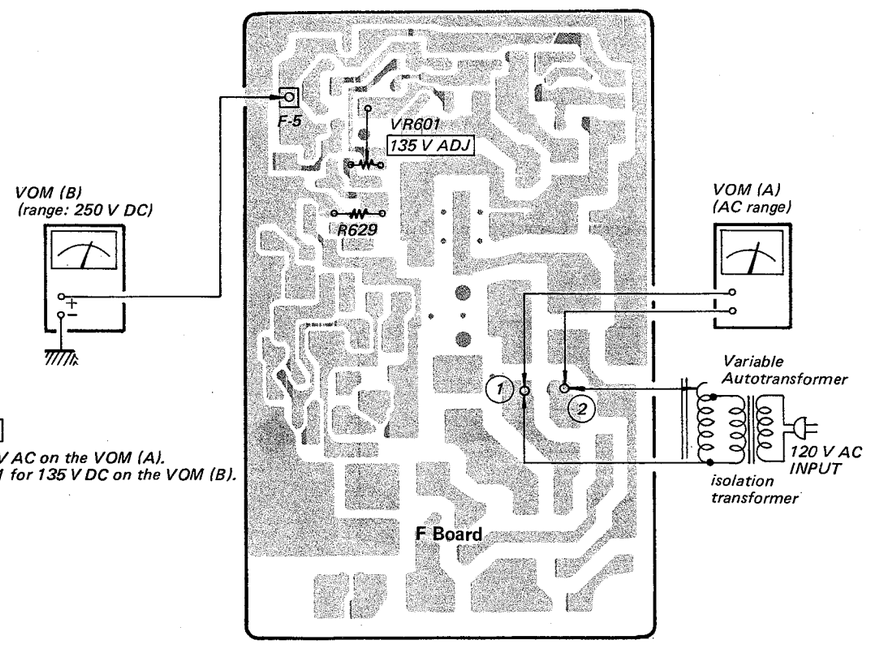
PICTURE control
HUE control
SHARPNESS control } Set for best picture
BRIGHT control
COLOR control
AUTO switch ..... ON
AFT switch ..... ON

(4) TABLE OF CONTENTS FOR CIRCUIT ADJUSTMENTS

4-1. F BOARD ADJUSTMENT

B+ Pre-ADJ

1. *Adjust variable autotransformer for 130 V AC on the VOM (A).*
2. *Adjust VR601 for maximum reading on the VOM (B).*
3. *Select resistance value of R629 for 137 ~ 146 V DC on the VOM (B).*



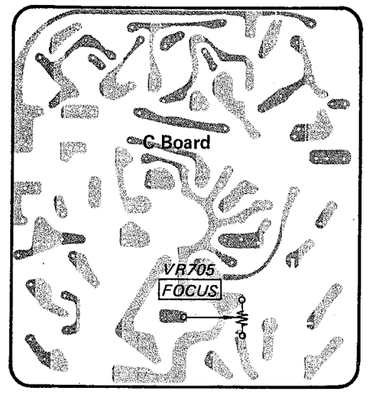
B+ (135 V) ADJ

1. *Confirm 120 V AC on the VOM (A).*
2. *Adjust VR601 for 135 V DC on the VOM (B).*

4-2. C BOARD ADJUSTMENT

FOCUS ADJ

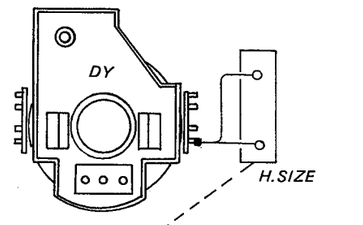
Adjust VR705 for best focus.

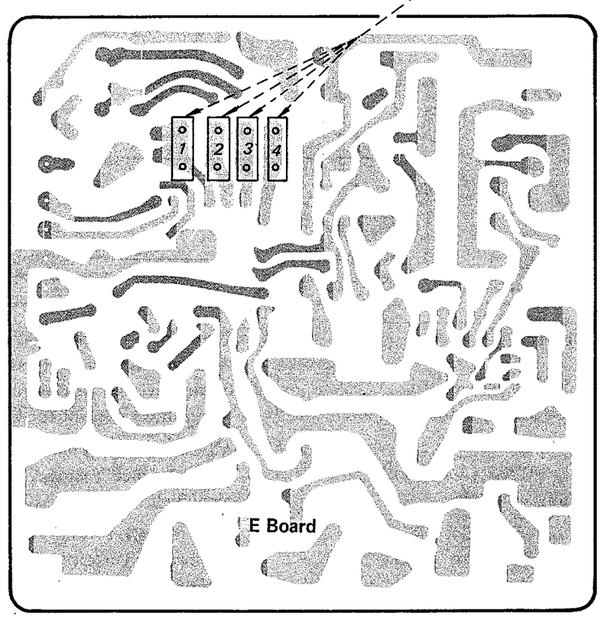


4-3. E BOARD ADJUSTMENT (1)

H. SIZE ADJ

Select one of connection points 1 ~4 for best H. SIZE.

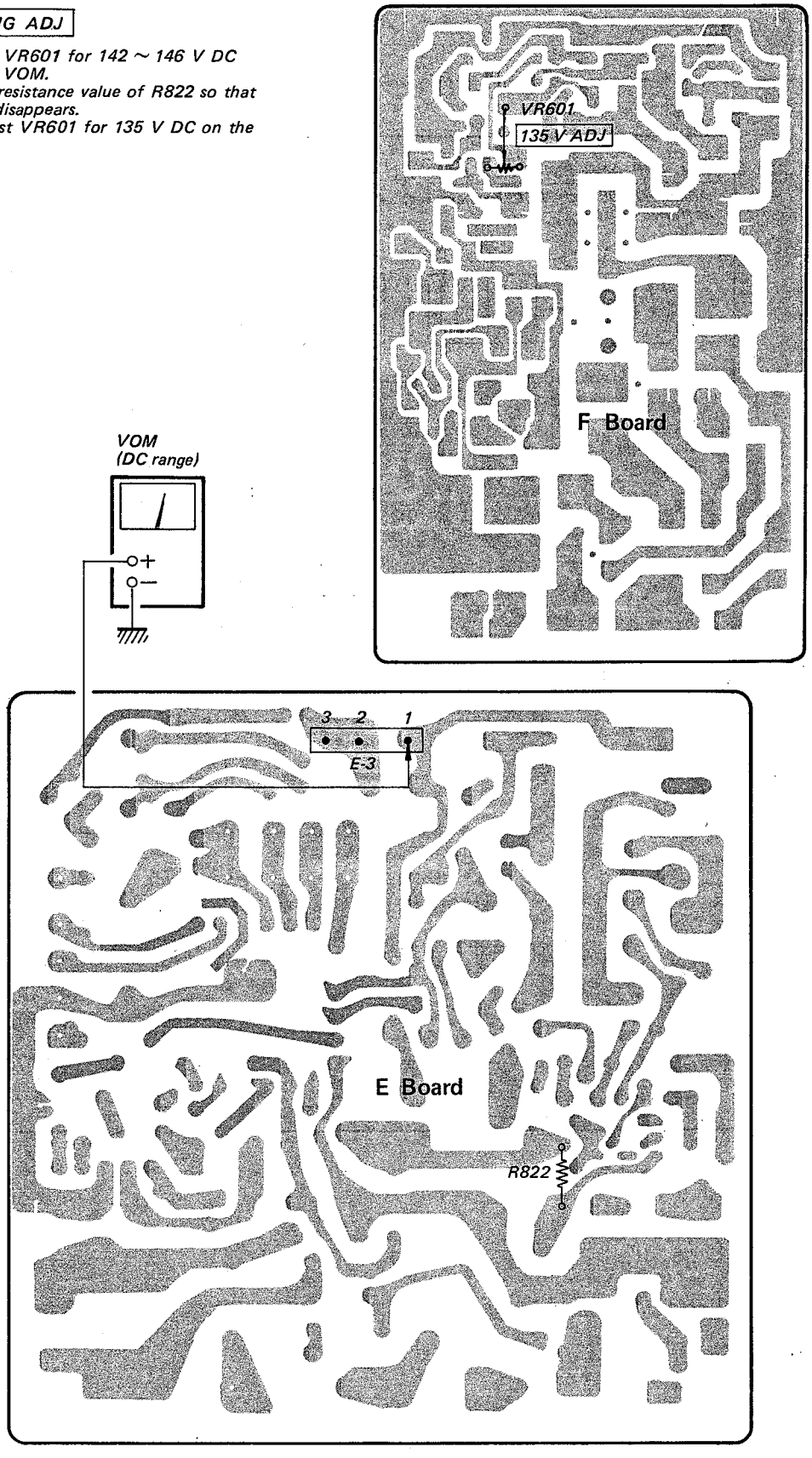




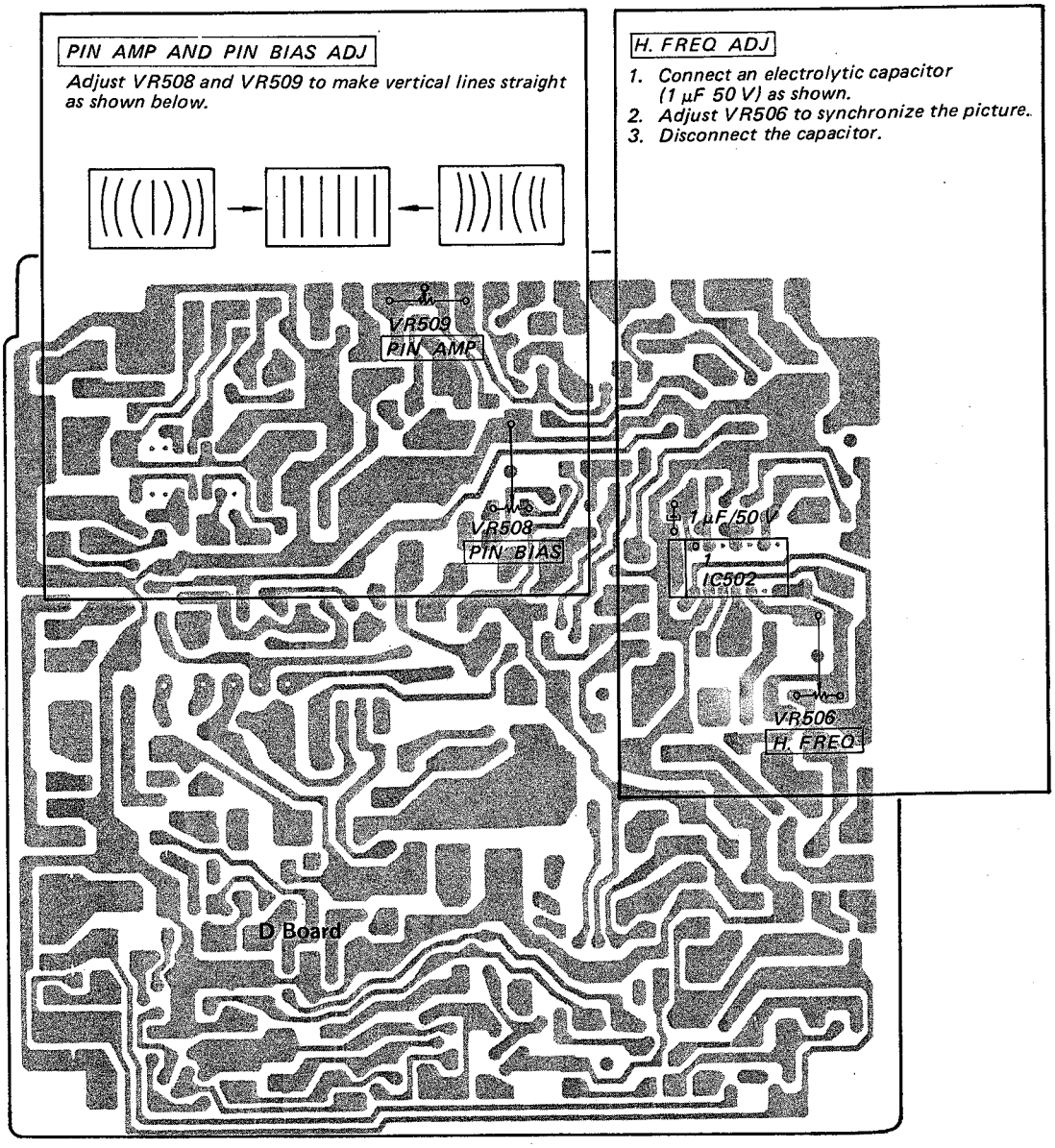
4-4. E BOARD ADJUSTMENT (2)

BLANKING ADJ

1. *Adjust VR601 for 142 ~ 146 V DC on the VOM.*
2. *Select resistance value of R822 so that raster disappears.*
3. *Readjust VR601 for 135 V DC on the VOM.*



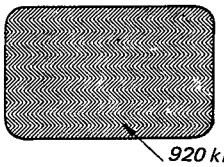
4-5. D BOARD ADJUSTMENTS



4-6. A BOARD ADJUSTMENTS

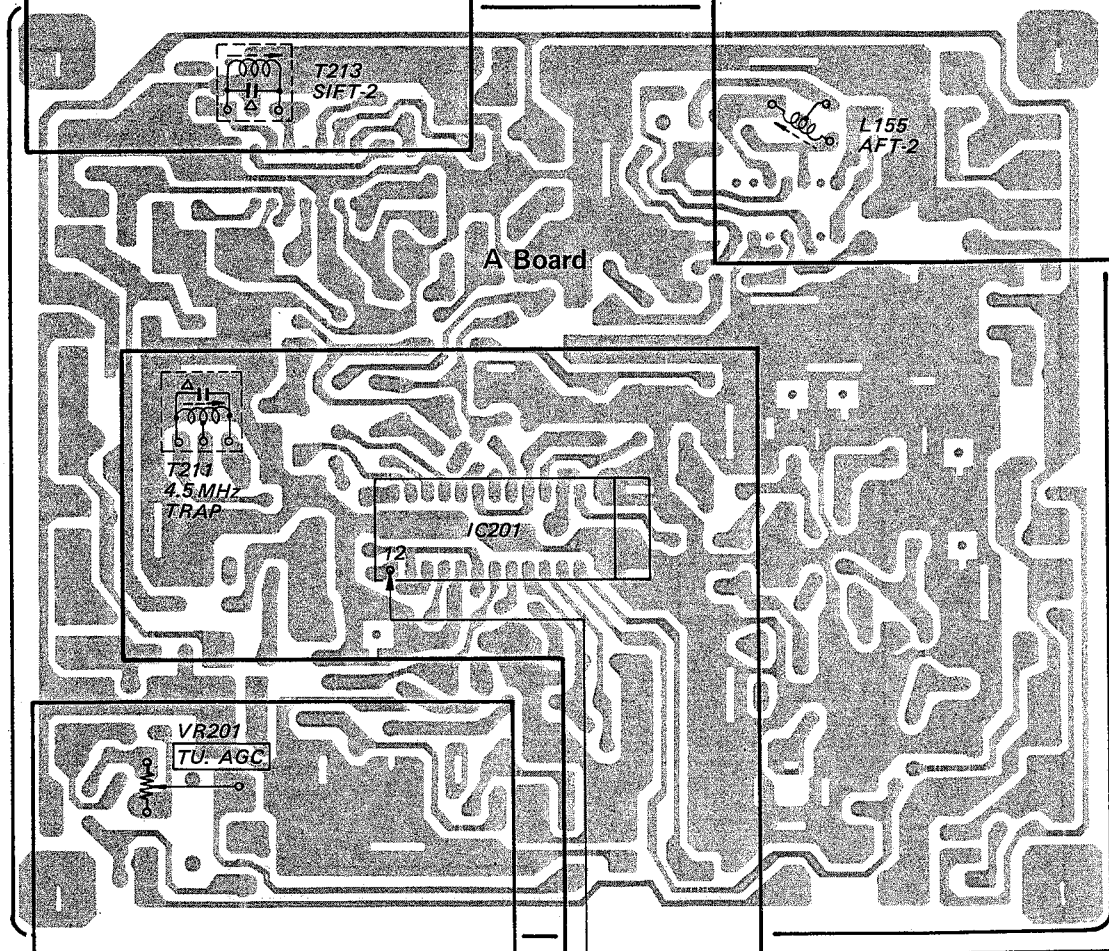
AFT ADJ

1. Receive an off-the-air signal.
2. Push AFT switch to OFF (manual operation).
3. Depress fine tuning knob, and then turn it clockwise to obtain 920 kHz beat.
4. Set fine tuning knob to the point where the 920 kHz beat just disappears by slowly turning fine tuning knob counter-clockwise.
5. Push AFT switch to ON. The 920 kHz beat will appear or "no color" will occur, if the adjustment is improper.
6. Set L155 to the point where the 920 kHz beat just disappears or normal color is obtainable.



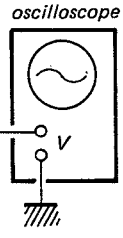
SIF ADJ

1. Receive an off-the-air signal.
2. Adjust T213 for maximum clear-sound.



TUNER AGC ADJ

1. Receive an off-the-air signal.
2. Adjust VR201 so that show-noise and cross-modulation disappear on the picture.



4.5 MHz TRAP ADJ

1. Receive an off-the-air signal.
2. Turn fine tuning knob clockwise while depressing it for 4.5 MHz beat on the oscilloscope.
3. Adjust T211 for minimum 4.5 MHz beat.

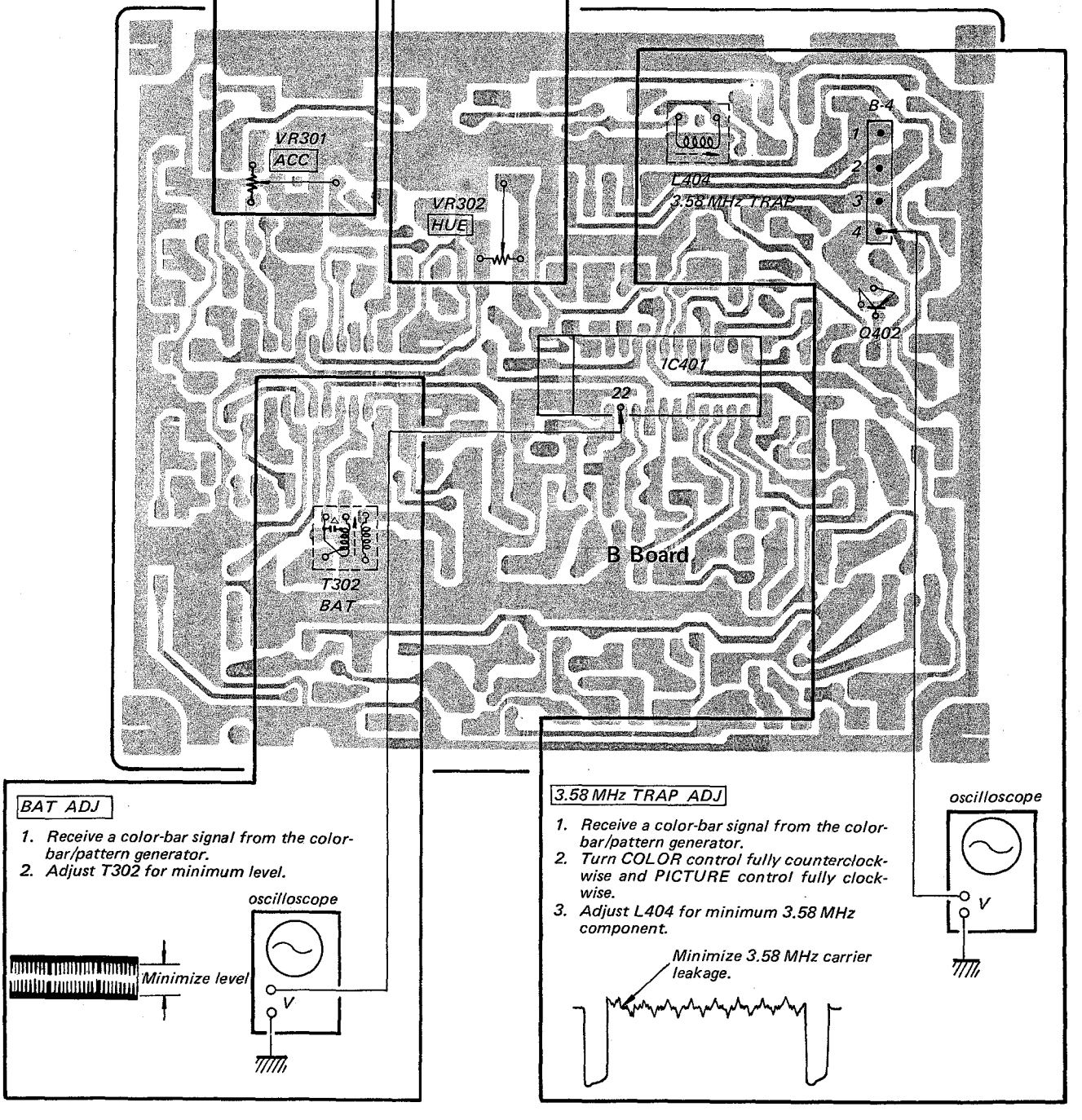
4-7. B BOARD ADJUSTMENTS

ACC ADJ

1. Receive a strong off-the-air signal.
2. Set COLOR and PICTURE controls to mechanical center.
3. Adjust VR301 for suitable color intensity.

HUE ADJ

1. Receive a strong off-the-air signal.
2. Set HUE control to mechanical center.
3. Adjust VR302 for correct skin tones.



BAT ADJ

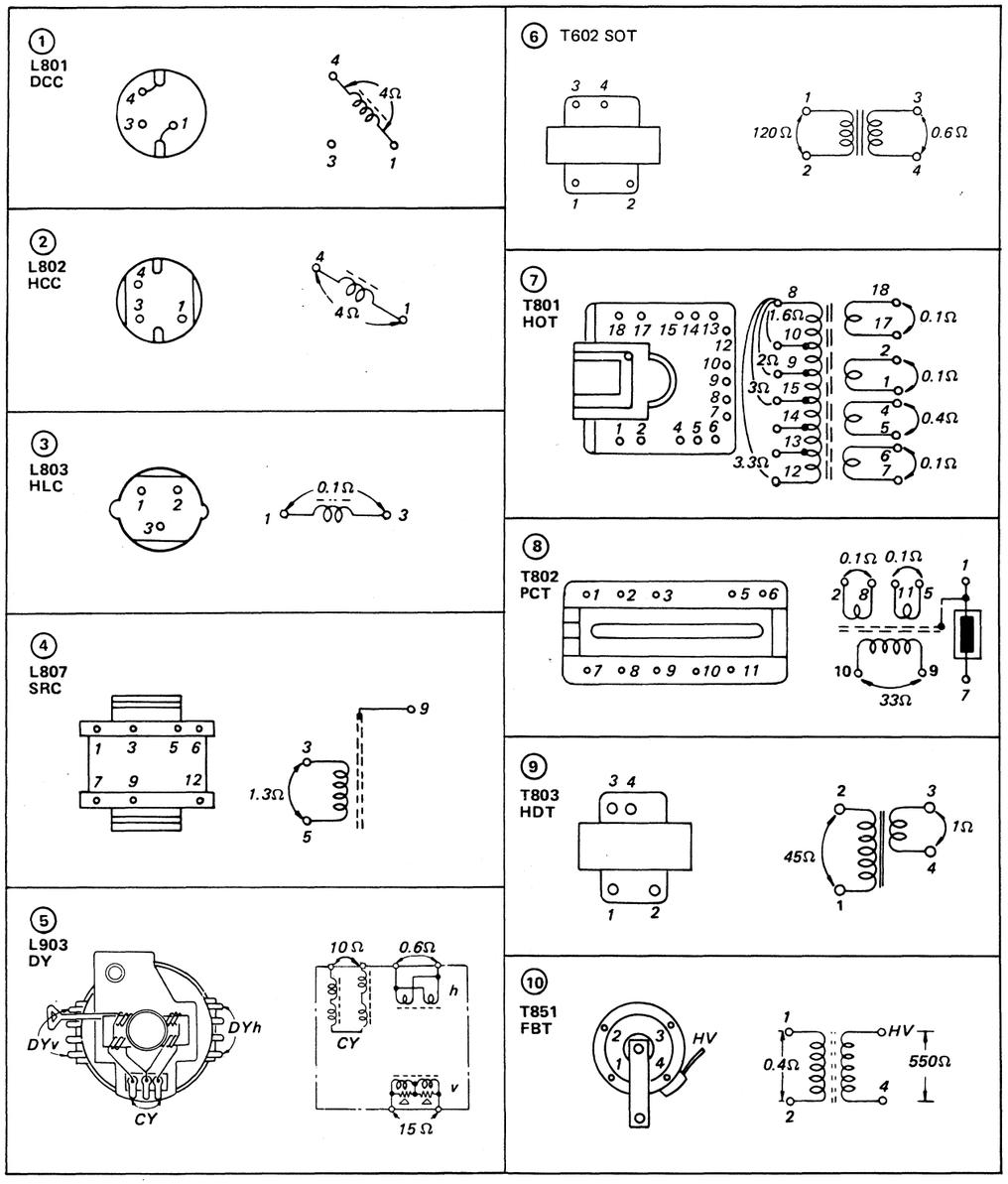
1. Receive a color-bar signal from the color-bar/pattern generator.
2. Adjust T302 for minimum level.

3.58 MHz TRAP ADJ

1. Receive a color-bar signal from the color-bar/pattern generator.
2. Turn COLOR control fully counterclockwise and PICTURE control fully clockwise.
3. Adjust L404 for minimum 3.58 MHz component.

SECTION 5
DIAGRAMS

5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

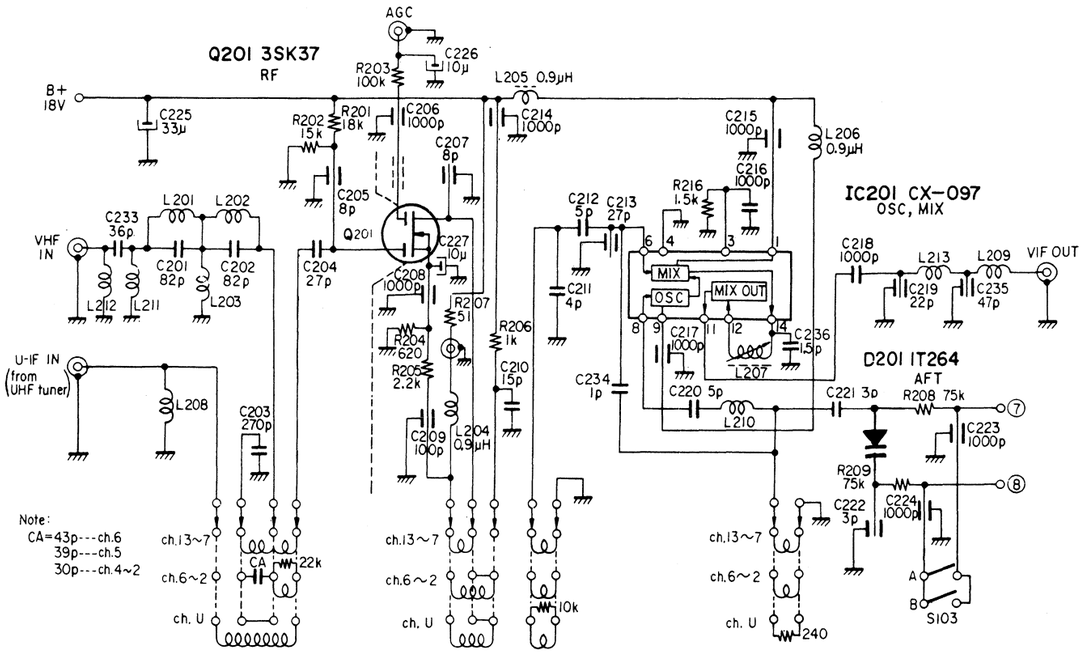


Note: DC resistance measurements shown with coil disconnected from circuit.

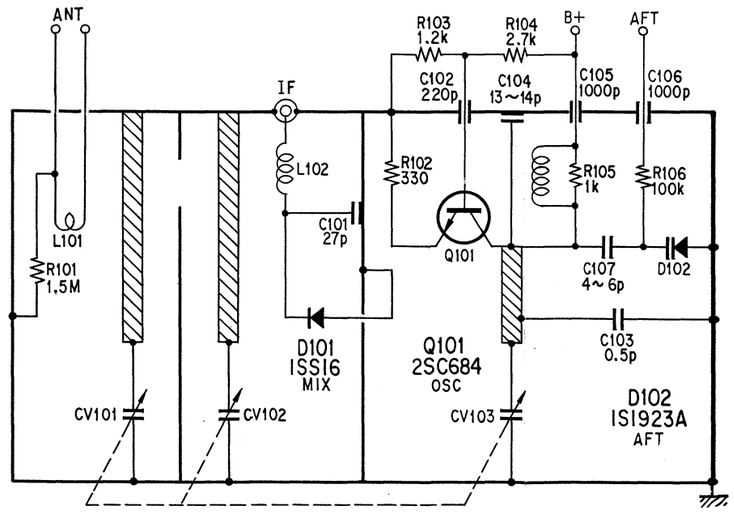
5-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

Note: 1. Tuner reference numbers are not included in the Electrical Parts List (Page 41 ~ 48).
2. All resistors are 1/4 W unless otherwise noted.

– VHF tuner – (BT-752Wu)

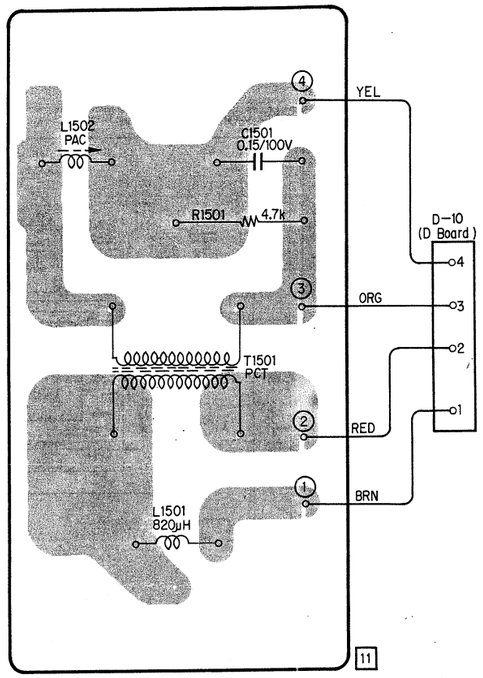


– UHF tuner – (BT-262)



5-3. MOUNTING DIAGRAM – V Board –

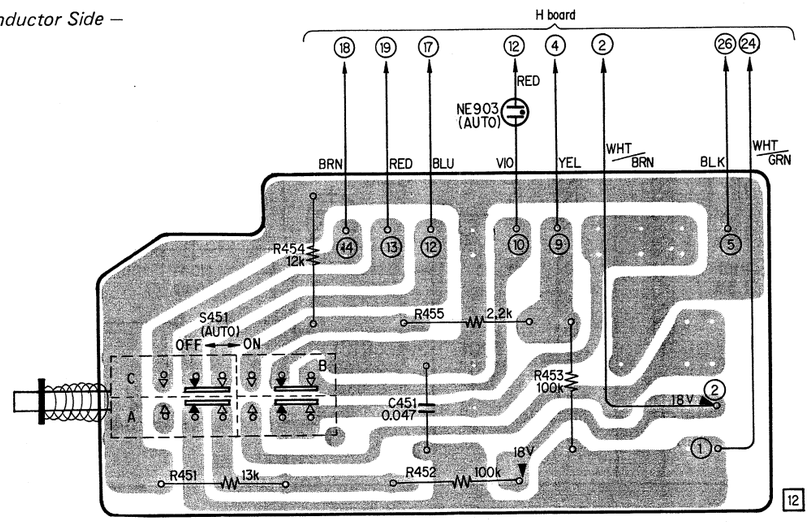
– Conductor Side –



Note: ○– indicates parts or wire connection point through the component side.

5-4. MOUNTING DIAGRAM – W Board –

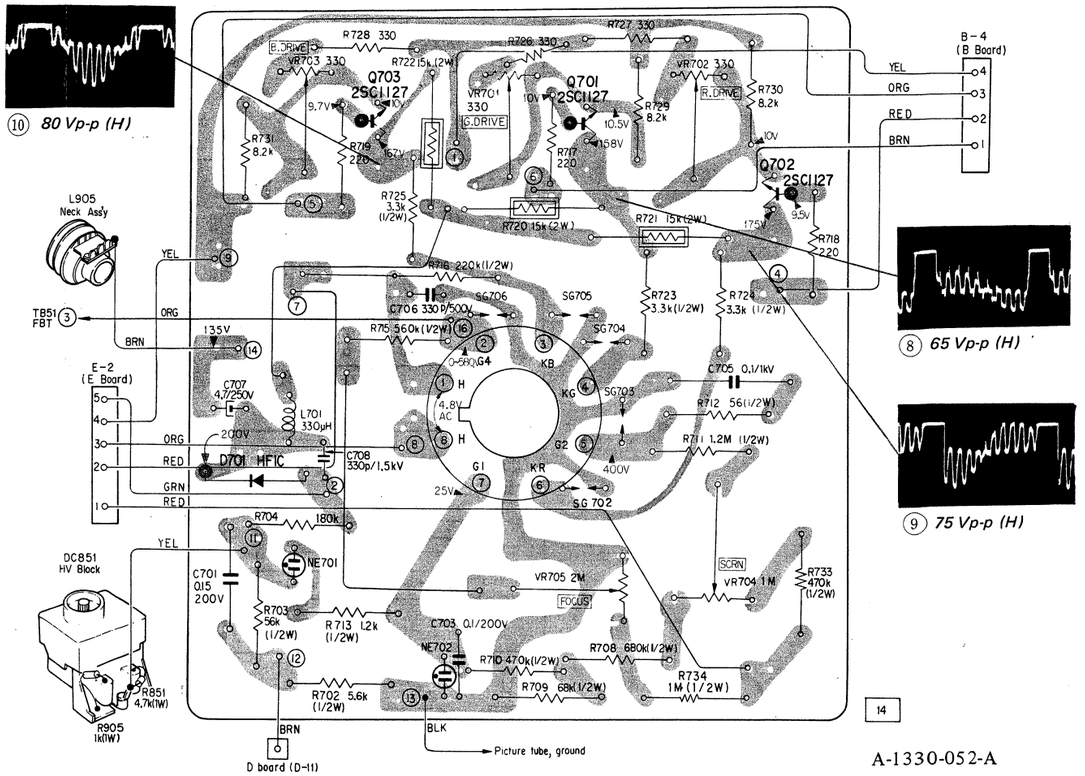
– Conductor Side –



Note: ○– indicates parts or wire connection point through the component side.

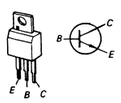
5-5. MOUNTING DIAGRAM – C Board –

– Conductor Side –

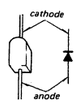


A-1330-052-A

2SC1127



HF1C



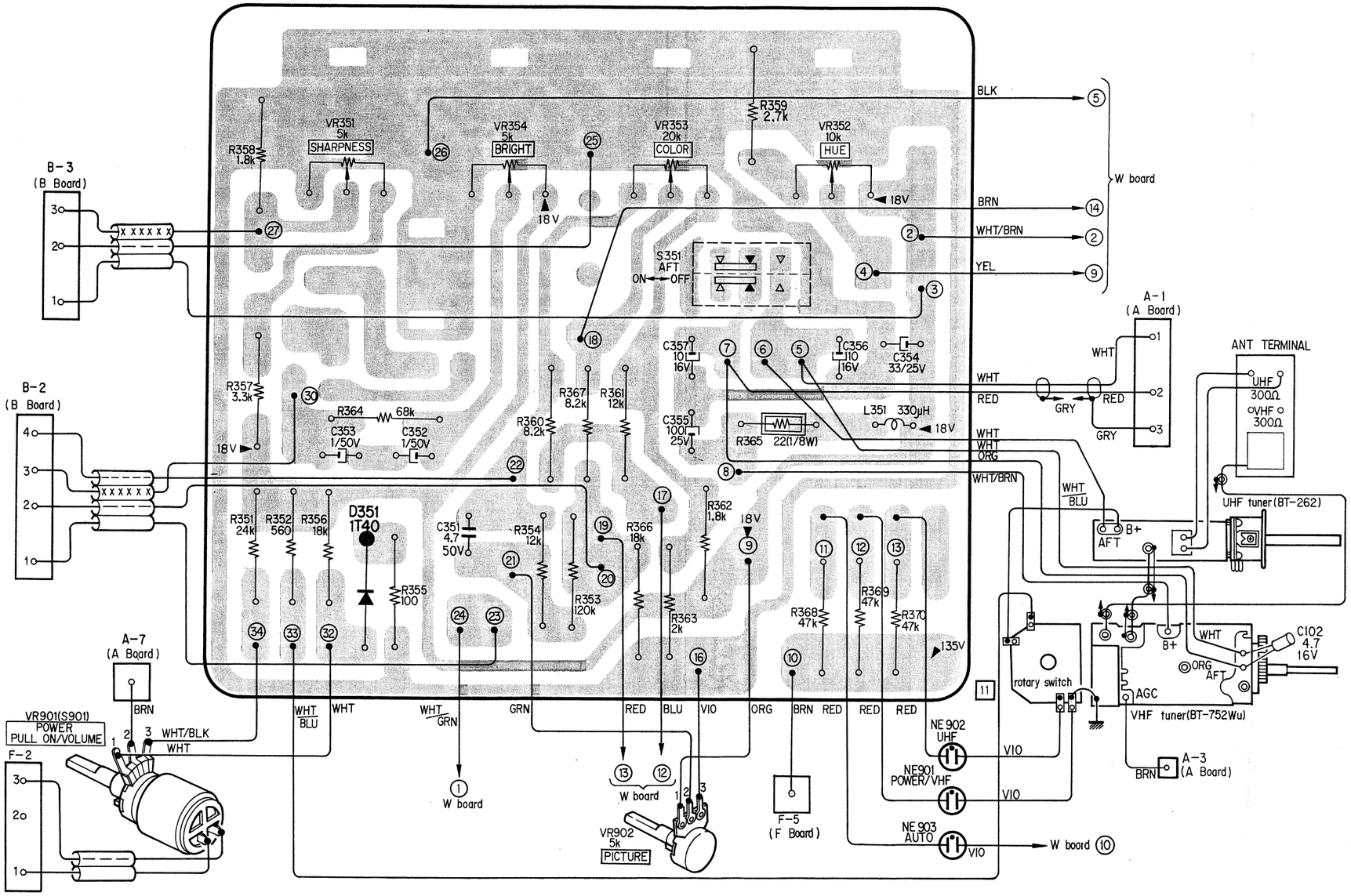
Note: ●– indicates parts or wire connection point on the conductor side.

○– indicates parts or wire connection point through the component side.

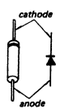
⏦ indicates a nonflammable resistor.

5-6. MOUNTING DIAGRAM –H Board –

– Conductor Side –



1T40



Note: ●– indicates parts or wire connection point on the conductor side.

○– indicates parts or wire connection point through the component side.

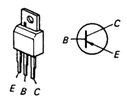
–[NW]– indicates a nonflammable resistor.

A-1370-063-A

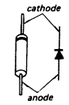
5-7. MOUNTING DIAGRAM – F Board –

– Conductor Side –

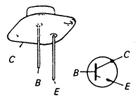
2SA835



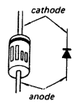
RD11E



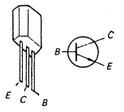
2SC867A



SIB01-02

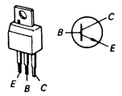


2SC926A

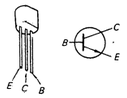


U05E

2SC1663



2SC1670



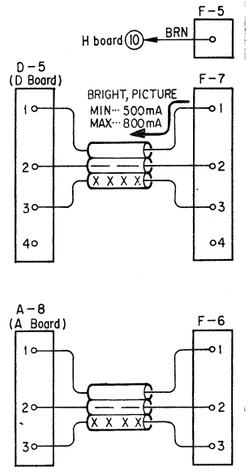
Note: ● indicates parts or wire connection point on the conductor side.

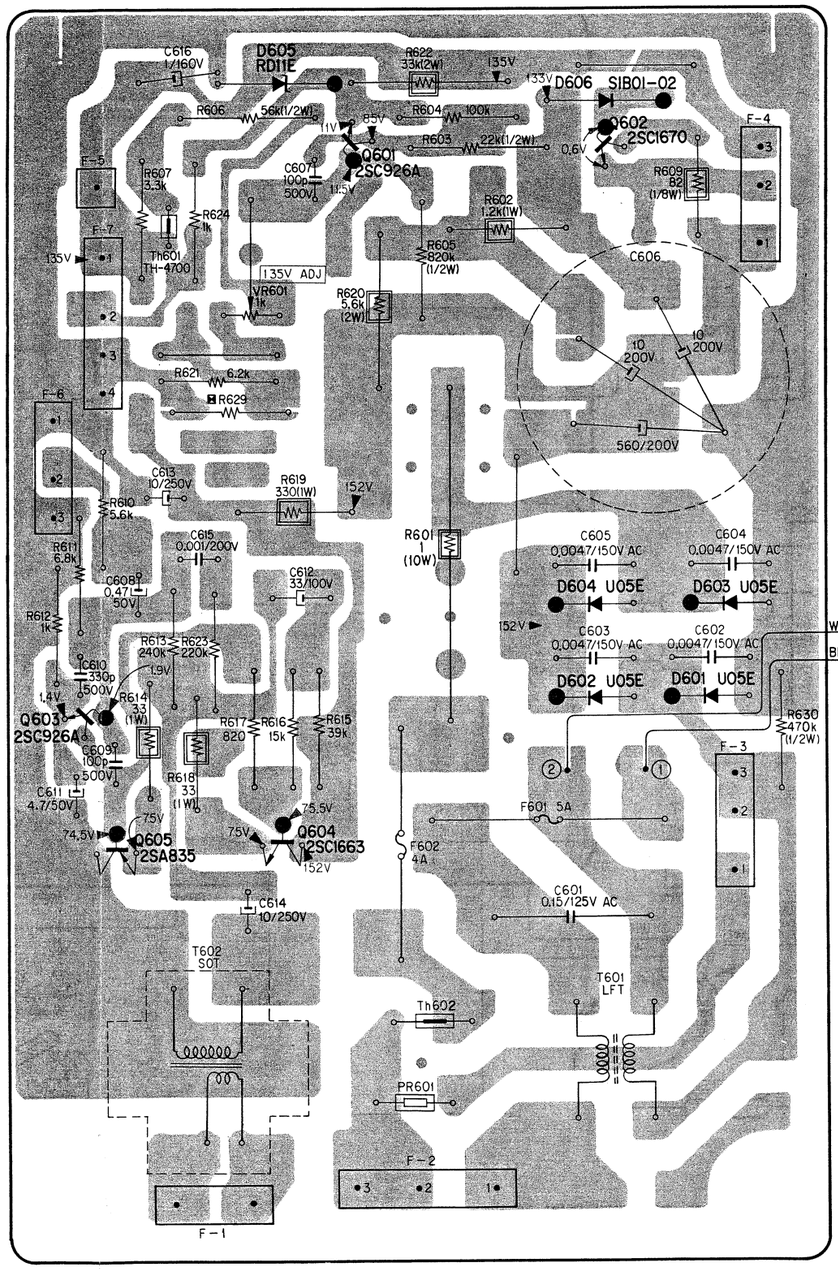
○ indicates parts or wire connection point through the component side.

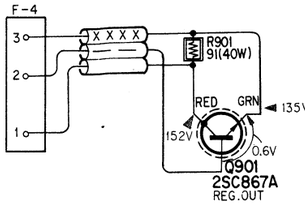
indicates a nonflammable resistor.

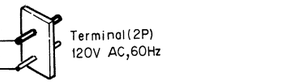
▣ : indicates factory selected value.

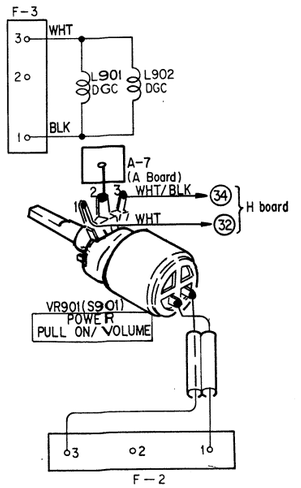
Q	D	ADJ
Q601 Q602 Q901	D605 D606	VR601
	D604 D603	
Q603	D602 D601	
Q605 Q604		









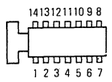


A-1345-020-A

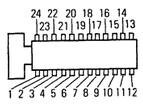
5-8. MOUNTING DIAGRAM – A Board –

– Conductor Side –

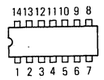
CX095



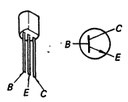
CX100B

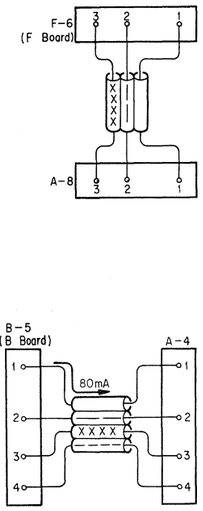


TA7070P



2SC1128





A-1295-030-A

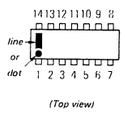
IC & Q	IC202	Q202	IC201	IC151
ADJ	T211 T213 VR201			L155

Note: ● indicates parts or wire connection point on the conductor side.
○ indicates parts or wire connection point through the component side.
■ indicates parts on the conductor side.

5-9. MOUNTING DIAGRAM – D Board –

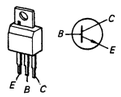
– Conductor Side –

CX157

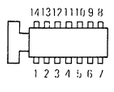


(Top view)

2SC1124
2SC1663

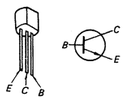


CX158

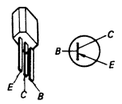


(Top view)

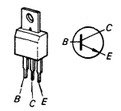
2SC1670



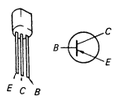
2SA677



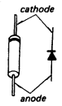
2SC1810



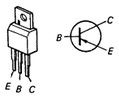
2SA733



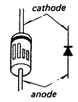
1T40



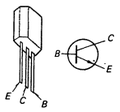
2SA835



SIB01-02

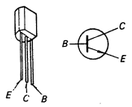


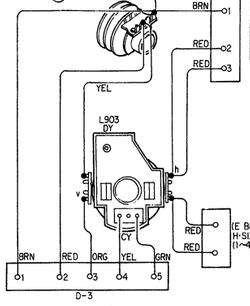
2SC633A
2SC1636



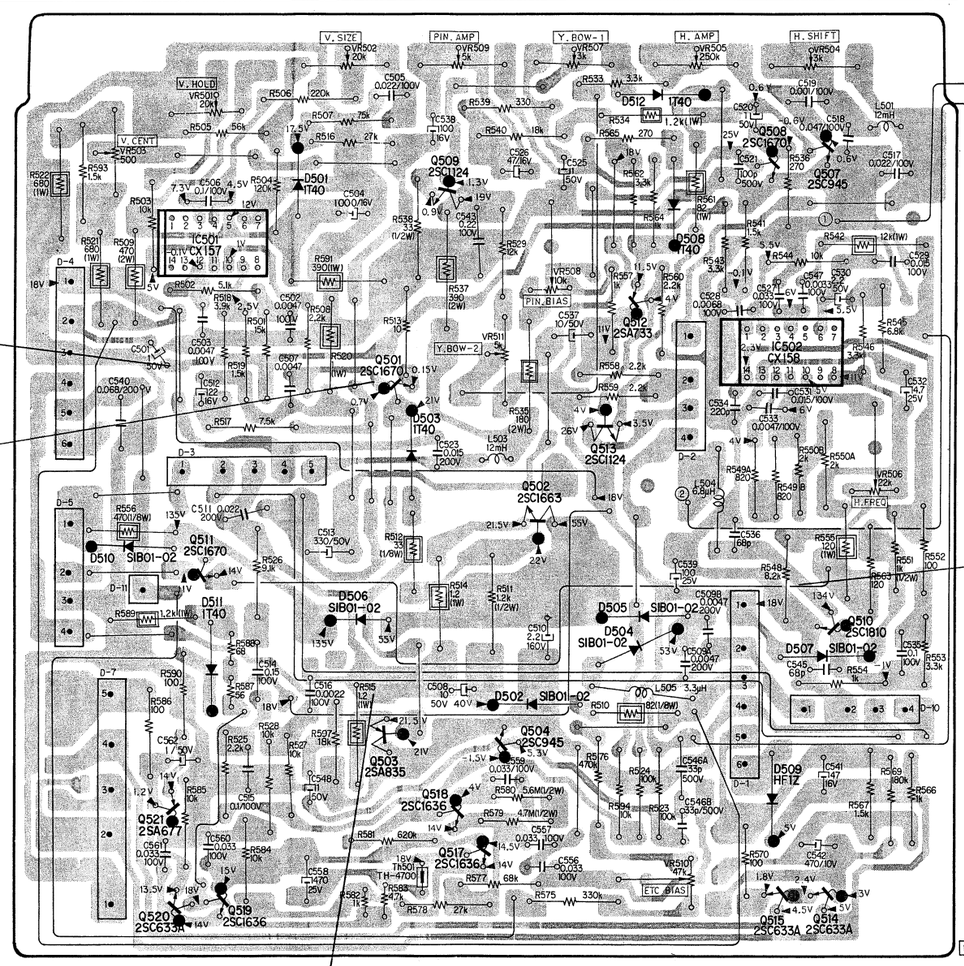
HF1Z

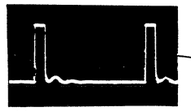
2SC945



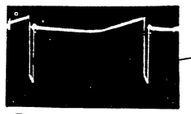


IC,Q	IC501 Q521 Q511 Q520 Q519	Q501 Q503	Q509 Q518 Q517	Q504 Q502	Q512 Q513	Q508 Q507 IC502 Q510 Q515 Q514
D	D510	D511	D501	D506	D503	D502	D512 D508 D504 D505	D509	D507
ADJ	VR503	VR501	VR502	VR509 VR511 VR508 VR507	VR510 VR505	VR504 VR506

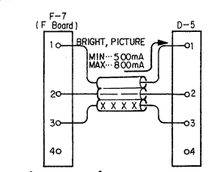


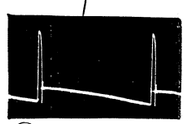


(11) *9 Vp-p (H)*

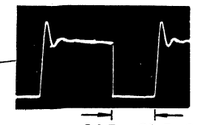


(12) *0.9 Vp-p (V)*





(13) *130 Vp-p (V)*



(14) *300 Vp-p (H)*

24.5 ~ 28.5 µS

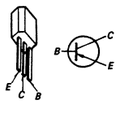
A-1345-070-A

Note: ●– indicates parts or wire connection point on the conductor side.
○– indicates parts or wire connection point through the component side.
■ indicates parts on the conductor side.
—[≈]— indicates a nonflammable resistor.
Voltages around Q514 and Q515 in the D board are taken from the points to the ground side of C541.

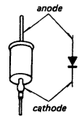
5-10. MOUNTING DIAGRAM – E Board –

– Conductor Side –

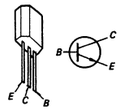
2SA678



SID30-15

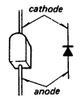


2SC634A

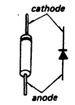


V11N

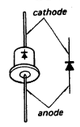
HF1
HF1A
HF1Z



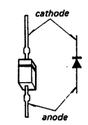
1T40
RD11E



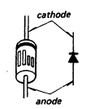
S34



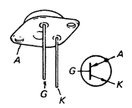
1T19-15B



SIB01-02



SG613



Note: ●– indicates parts or wire connection point on the conductor side.

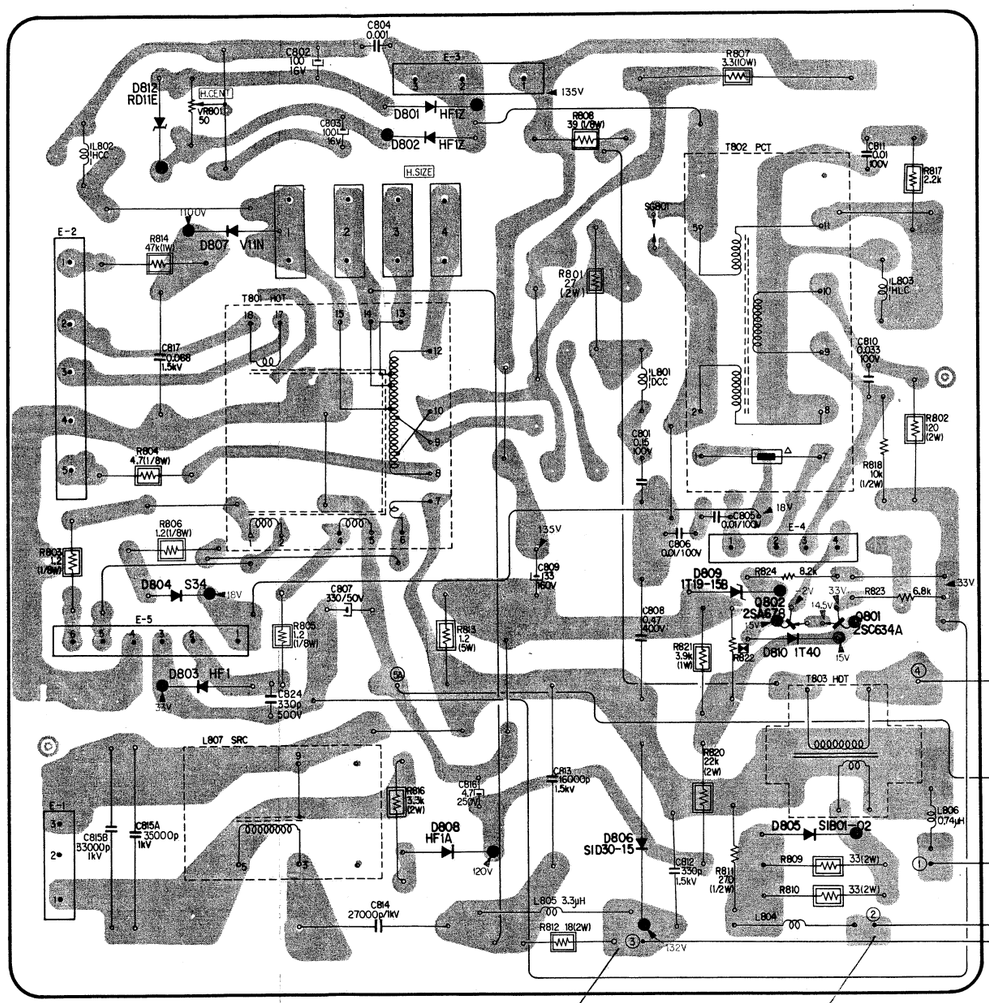
○– indicates parts or wire connection point through the component side.

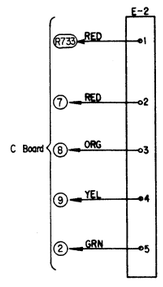
–▭– indicates a nonflammable resistor.

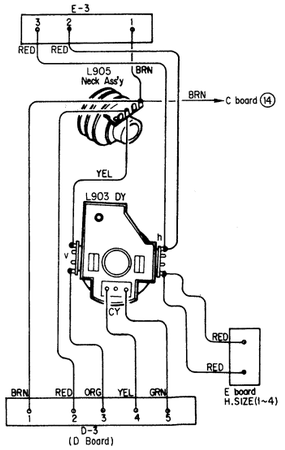
▣ indicates factory selected value.

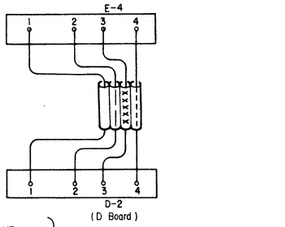
The symbol ☚ printed on the conductor side of circuit board indicates that complete connection should be especially made.

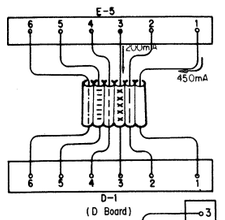
Q	Q802 Q801 Q902
D	D812 D804 D803 D807 D801 D802 D808 D806 D809 D810 D805
ADJ	VR801 L807

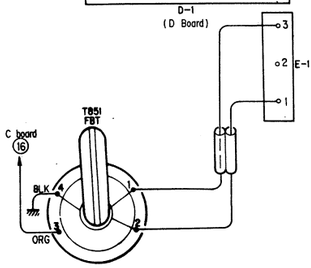








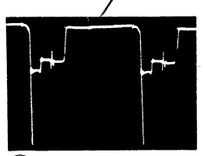




A-1345-064-A

11 ~ 13 μS

⑯ *1050 ~ 1150 Vp-p (H)*



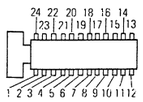
⑮ *35 Vp-p (H)*

5-11. MOUNTING DIAGRAM – B Board –

– Conductor Side –

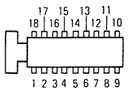
Q,IC	IC301	Q301	IC401	Q401	Q402
D	D301			D402	
ADJ	VR301 T302	VR302	L404	VR305 VR304 VR303	VR306

CX101G



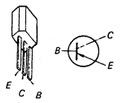
(Top view)

CX103D

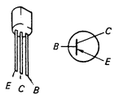


(Top view)

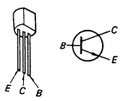
2SA677



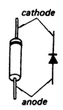
2SA773



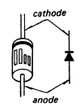
2SC1475



1T22



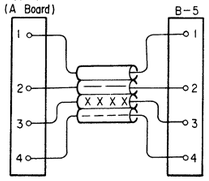
SIB01-02



[redacted]

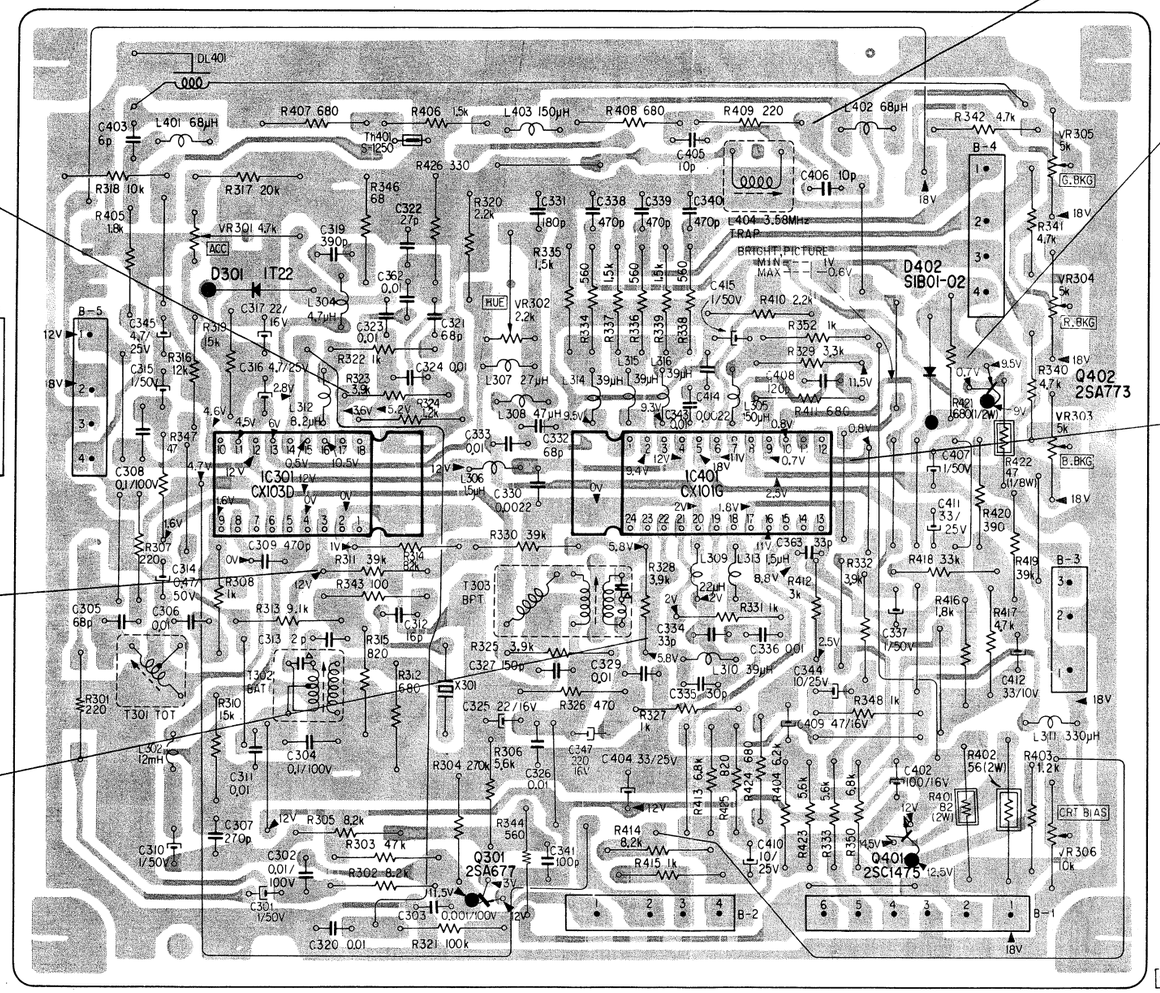
[redacted]

③ *0.3 Vp-p (H)*

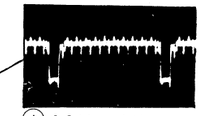


② *7 Vp-p (H)*

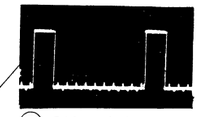
⑤ *1.5 Vp-p (H)*



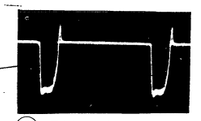
④ *0.8 Vp-p (H)*

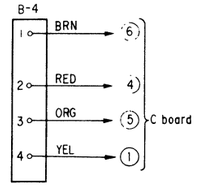


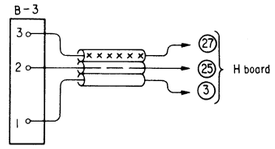
⑦ *6 Vp-p (H)*

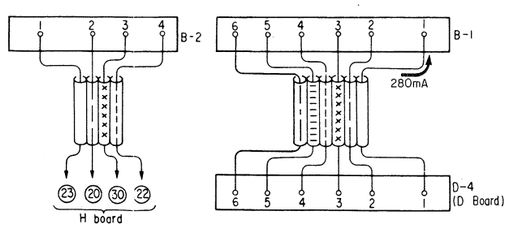


⑥ *7 Vp-p (H)*









[13] A-1135-027-A

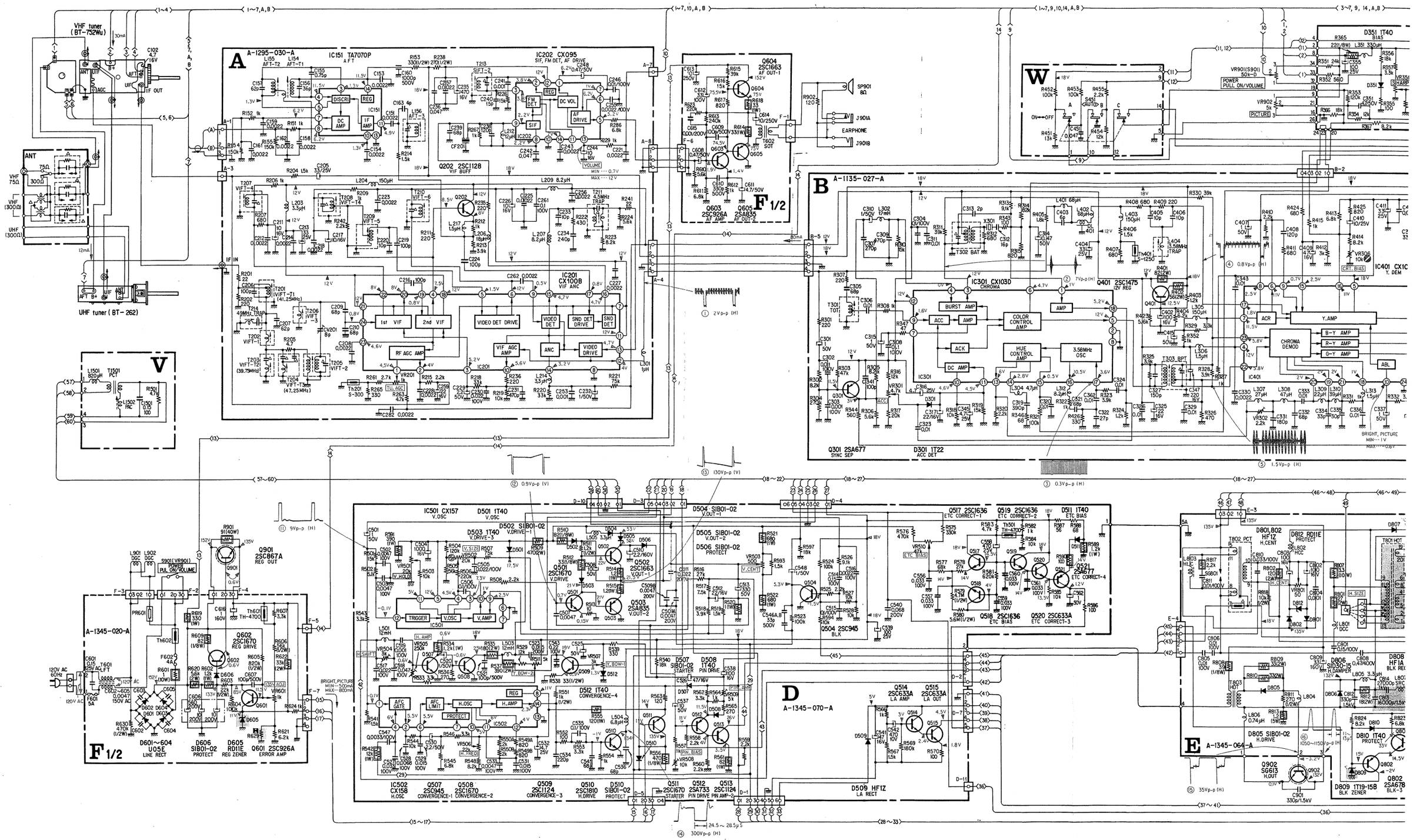
Note: ●– indicates parts or wire connection point on the conductor side.

○– indicates parts or wire connection point through the component side.

 indicates a nonflammable resistor.

Note: The shaded components are critical for safety.
Replace only with part number specified.

5-12. SCHEMATIC DIAGRAM



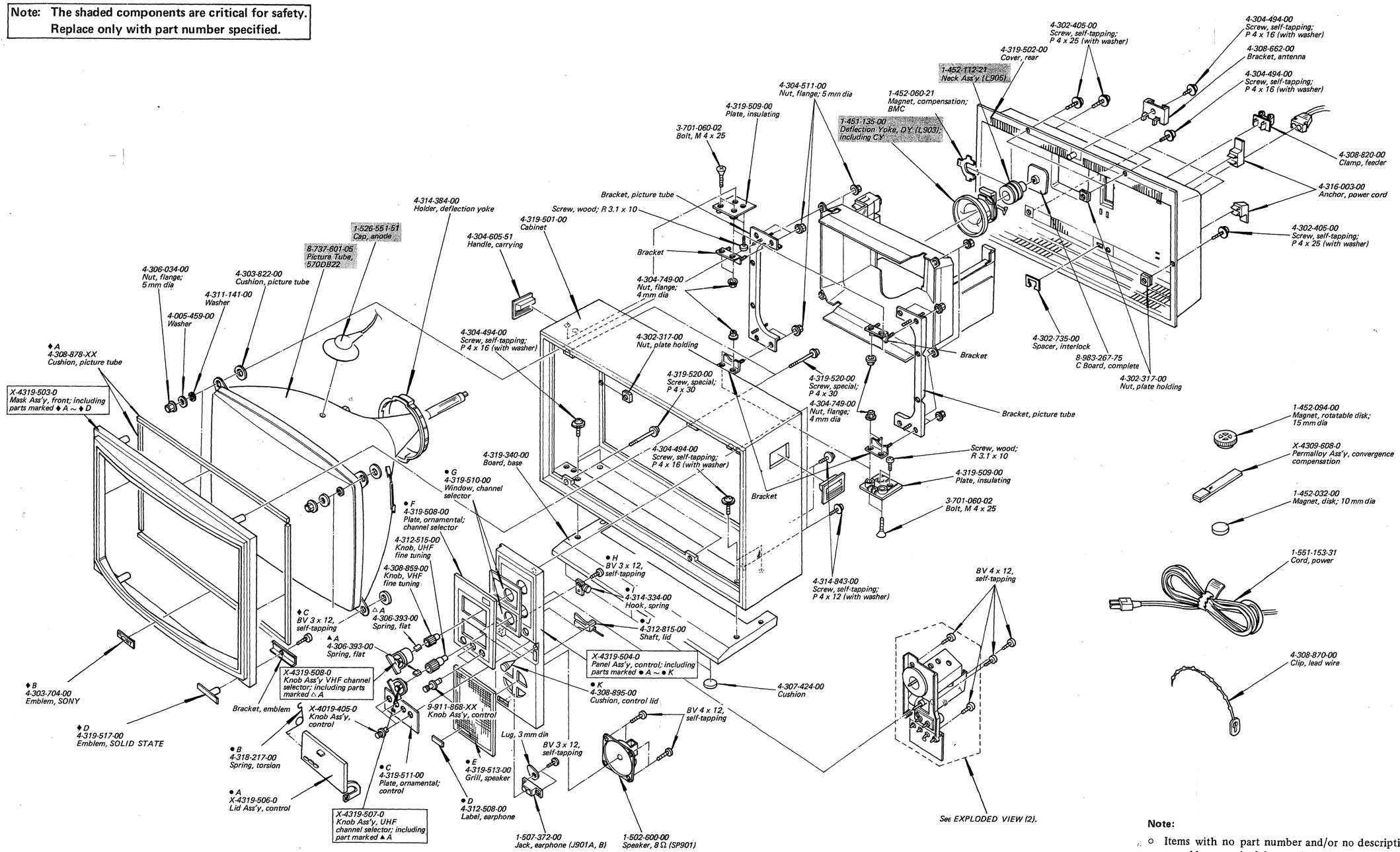
Note:

- All capacitors are in μF unless otherwise noted. p = μμF.
- All resistors are in ohms, ¼ W unless otherwise noted. k = 1000 M = 1000k
- ※ indicates values to be selected.
- ▣ indicates factory selected value.
- △ indicates internal components.
- Voltages are dc with respect to ground unless otherwise noted. Readings are with a color-bar signal applied. Voltage variations may be noted due to normal production tolerances.
- Voltages of Q514 and Q515 in the D board are taken from the points to the ground side of C541.
- ▭ indicates a nonflammable resistors.
- ◐ : Adjustable without removing cabinet.
- ▭ : indicates the designation on the panel.
- ▭ : indicates adjustment for repair.

SECTION 6
EXPLODED VIEWS

(1)

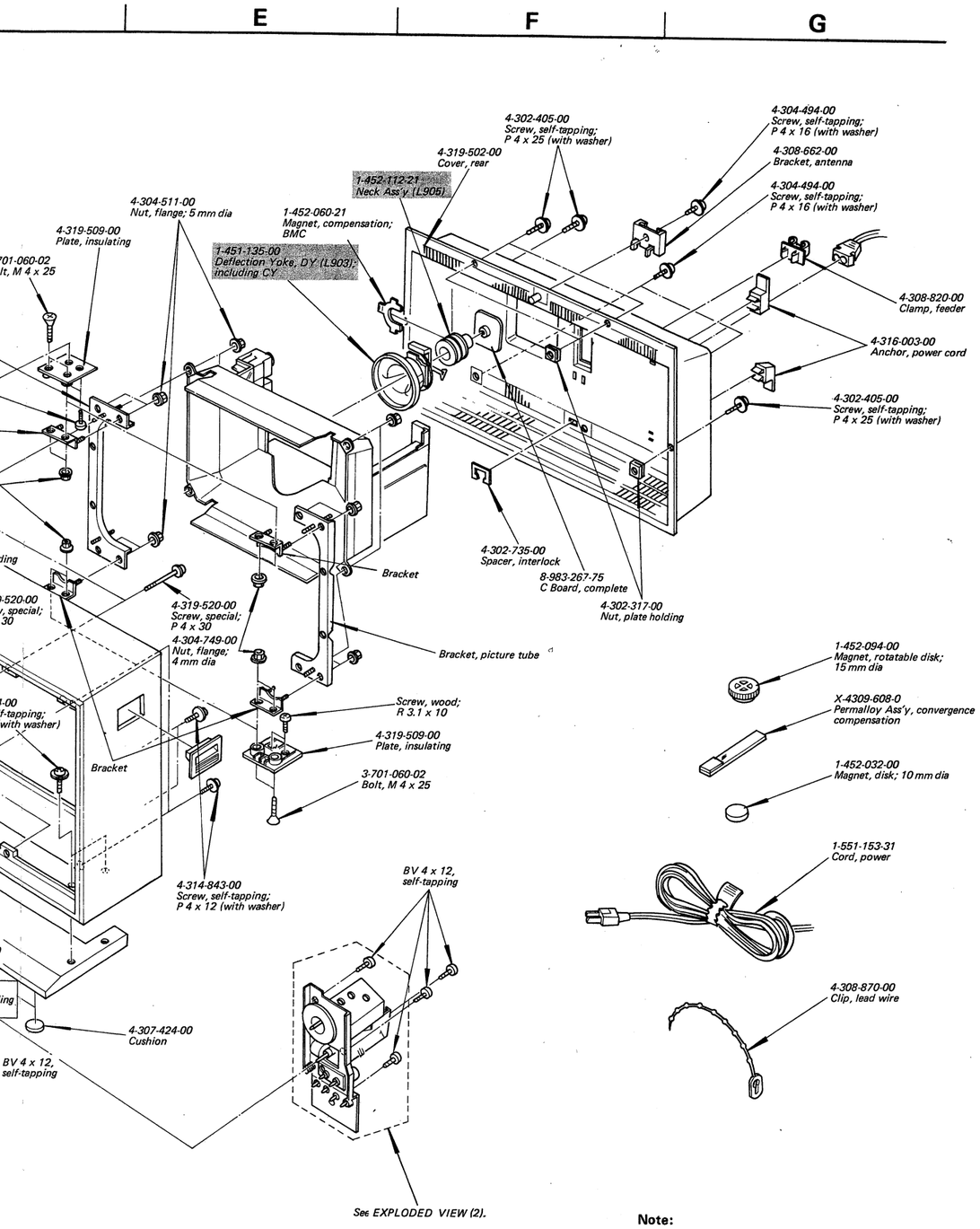
Note: The shaded components are critical for safety. Replace only with part number specified.



(2)

Note:

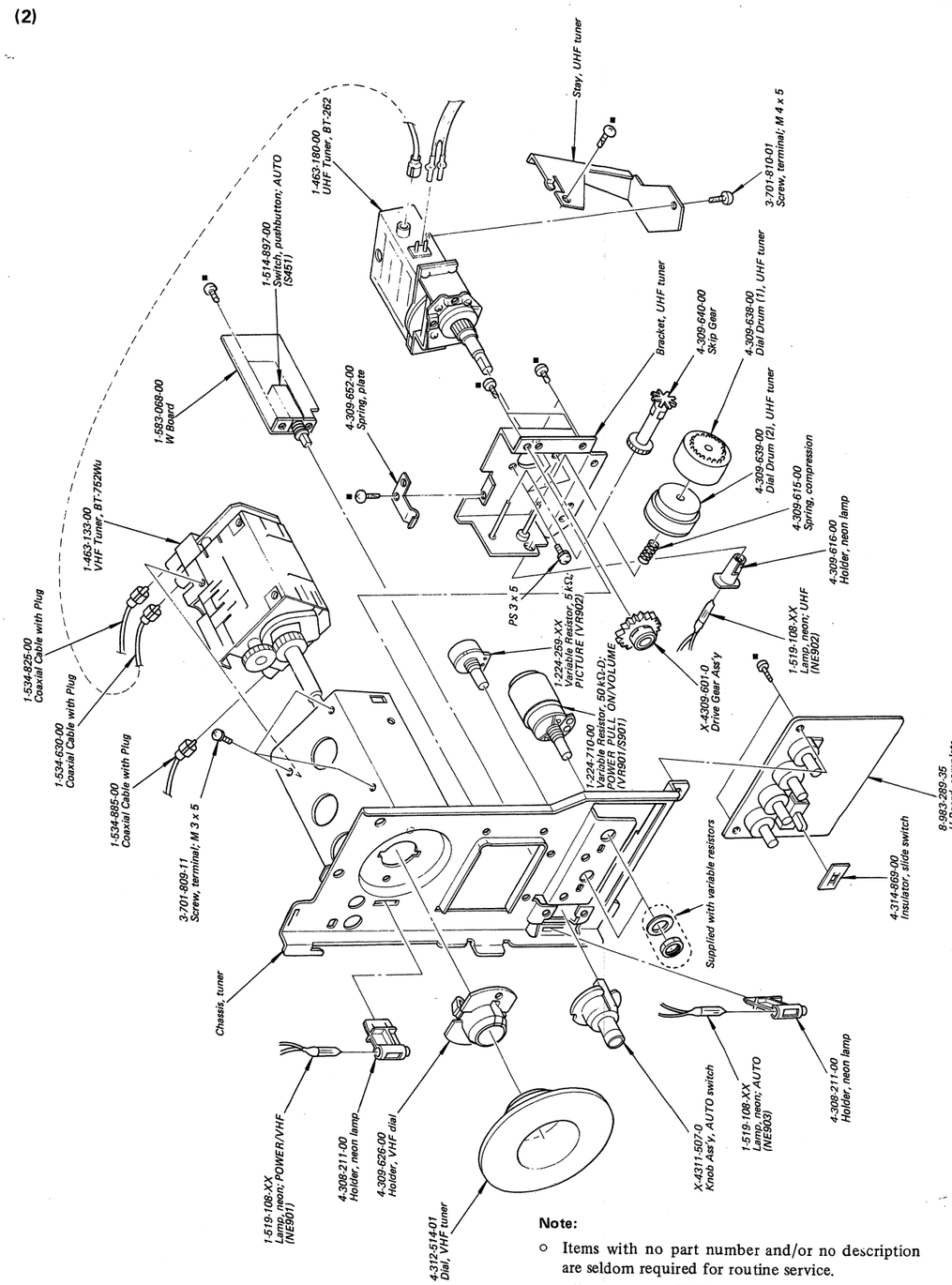
- Items with no part number and/or no description are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- ■ : BV 3 x 8, self-tapping.



Note:

- Items with no part number and/or no description are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- ■ : BV 3 x 8, self-tapping.

(2)

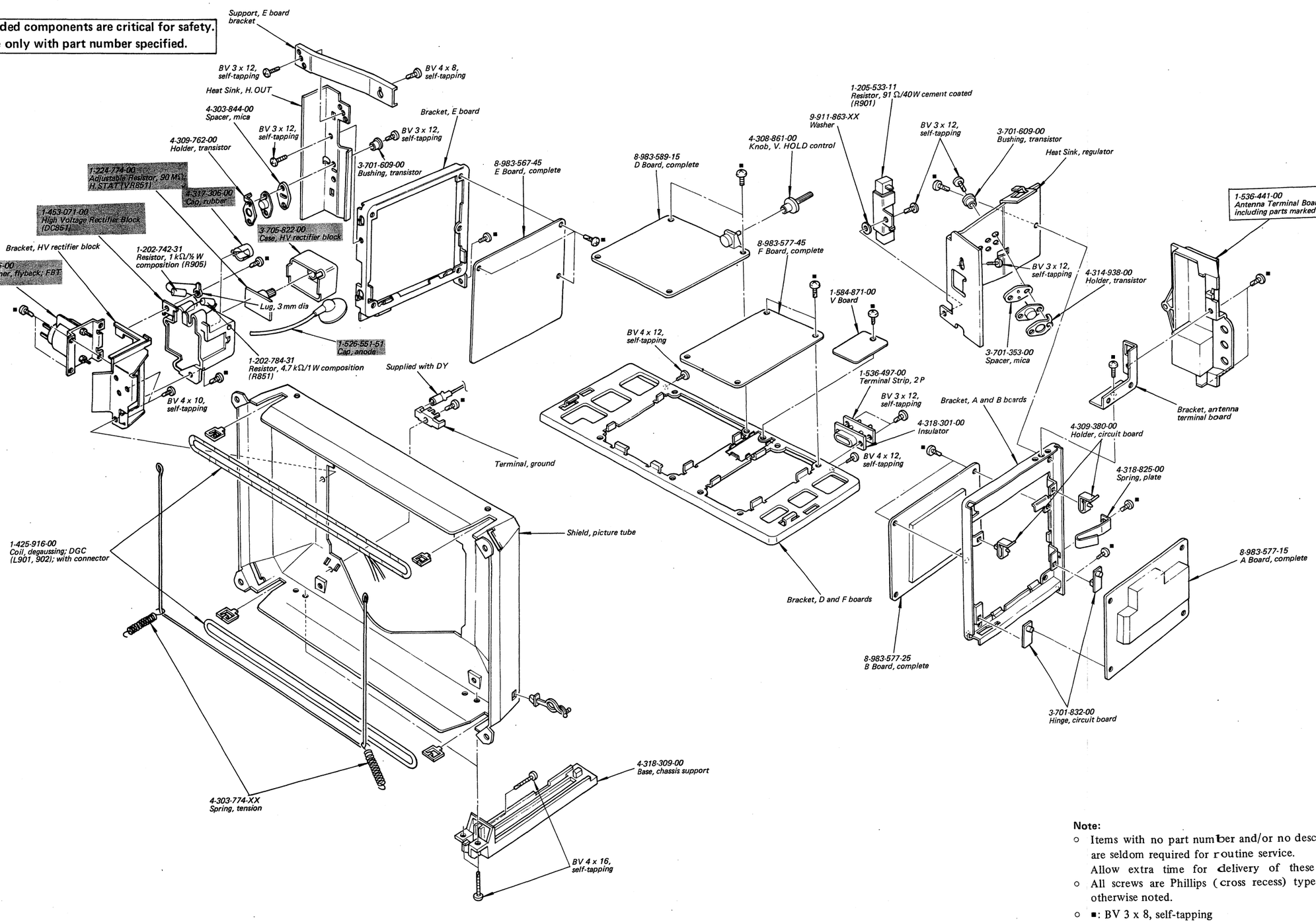


Note:

- Items with no part number and/or no description are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- ■ : BV 3 x 8, self-tapping.

(3)

Note: The shaded components are critical for safety. Replace only with part number specified.



Note:

- Items with no part number and/or no description are seldom required for routine service. Allow extra time for delivery of these parts.
- All screws are Phillips (cross recess) type unless otherwise noted.
- ■: BV 3 x 8, self-tapping

SECTION 7
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
		TUNERS AND CIRCUIT BOARDS
	1-463-133-00	VHF tuner, BT-752Wu
	1-463-180-00	UHF tuner, BT-262
	1-583-068-00	W Board
	1-584-630-00	J Board
	1-584-871-00	V Board
	8-983-267-75	C Board, complete
	8-983-289-35	H Board, complete
	8-983-567-45	E Board, complete
	8-983-577-15	A Board, complete
	8-983-577-25	B Board, complete
	8-983-577-45	F Board, complete
	8-983-589-15	D Board, complete
		SEMICONDUCTORS
		Transistors
Q202		2SC1128
Q301		2SA677
Q401		2SC1475
Q402		2SA773
Q501		2SC1670
Q502		2SC1663
Q503		2SA835
Q504, 507		2SC945
Q508		2SC1670
Q509		2SC1124
Q510		2SC1810
Q511		2SC1670
Q512		2SA733
Q513		2SC1124
Q514, 515		2SC633A
Q517～519		2SC1636
Q520		2SC633A
Q521		2SA677
Q601		2SC926A
Q602		2SC1670
Q603		2SC926A
Q604		2SC1663
Q605		2SA835
Q701～703		2SC1127
Q801		2SC634A
Q802		2SA678
Q901		2SC867A
Q902		SG613
		Diodes
D301		1T22
D351		1T40
D402		SIB01-02
D501		1T40
D502		SIB01-02
D503		1T40
D504～507		SIB01-02
D508		1T40
D509		HF1Z
D510		SIB01-02
D511, 512		1T40
D601～604		U05E
D605		RD11E
D606		SIB01-02
D701		HF1C
D801, 802		HF1Z
D803		HF1
D804		S34
D805		SIB01-02
D806		SID30-15
D807		V11N
D808		HF1A
D809		1T19-15B
D810		1T40
D812		RD11E
		ICs
IC151		TA7070P
IC201		CX100B
IC202		CX095
IC301		CX103D
IC401		CX101G
IC501		CX157
IC502		CX158
		Miscellaneous
PR601	1-800-414-00	Thermistor (positive)
Th201	⇒1-800-071-XX	Thermistor, TH-350
Th401	1-800-198-XX	Thermistor, S-1250
Th501	⇒1-800-070-XX	Thermistor, TH-4700
Th601	1-800-070-XX	Thermistor, TH-4700
Th602	1-800-416-00	Thermistor
		COILS

All coils are microinductor unless otherwise noted.

Ref. No.	Part No.	Description
L154	1-403-904-00	AFT-1
L155	1-403-905-00	AFT-2
L156	1-403-962-00	AFT-3
L203	1-407-184-XX	3.3 μH
L204	1-407-171-XX	150 μH
L206	1-407-696-00	18 μH
L207, 209	1-407-189-XX	8.2 μH
L212	1-407-158-XX	12 μH
L214	1-407-184-XX	3.3 μH
L217	1-407-180-XX	1.5 μH
L301	1-407-178-XX	1 μH
L302	1-407-776-00	12 mH
L304	1-407-186-XX	4.7 μH
L305	1-407-171-XX	150 μH
L306	1-407-180-XX	1.5 μH
L307	1-407-162-XX	27 μH
L308	1-407-165-XX	47 μH
L309	1-407-161-XX	22 μH
L310	1-407-164-XX	39 μH
L311	1-407-175-XX	330 μH
L312	1-407-189-XX	8.2 μH
L313	1-407-180-XX	1.5 μH
L314～316	1-407-164-XX	39 μH
L351	1-407-175-XX	330 μH
L401, 402	1-407-167-XX	68 μH
L403	1-407-171-XX	150 μH
L404	1-409-193-00	3.58 MHz Trap
L501	1-407-207-XX	12 mH
L503	1-407-207-XX	12 mH
L504	1-407-556-00	6.8 μH, spook choke
L505	1-407-364-00	3.3 μH, spook choke
L701	1-407-175-XX	330 μH
L801	1-459-075-00	Dynamic Convergence Choke, DCC
L802	1-459-148-00	Horizontal Centering Choke, HCC
L803	1-459-147-00	Horizontal Linearity, HLC
L804	1-407-364-00	Spook Choke
L805	1-407-780-00	3.3 μH, spook choke
L806	1-407-365-00	0.74 μH, spook choke
L807	1-413-027-00	Sine Resonance, SRC
L901, 902	1-425-916-00	Degaussing, DGC (with connector)
L903	1-451-135-00	Deflection Yoke, DY (including CY)
L905	1-452-112-21	Neck Ass'y
L1501	1-459-106-00	820 μH
L1502	1-459-149-00	PAC
DL401	1-415-047-00	Delay Line
		TRANSFORMERS
T201	1-409-213-00	VIFT-T1 (41.25 MHz)
T202	1-403-961-00	VIFT-1
T203	1-409-264-00	VIFT-T2 (39.75 MHz)
T204	1-409-219-00	VIFT-T3 (47.25 MHz)

⇒ : Due to replacement parts, the values are different on the diagrams.

Note: The shaded components are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
T205	1-403-925-00	VIFT-2
T206	1-403-927-00	VIFT-3
T207	1-403-928-00	VIFT-4
T208	1-409-263-00	VIFT-T4
T209	1-403-926-00	VIFT-5
T210	1-403-924-00	VIFT-6
T211	1-409-146-00	4.5 MHz Trap
T213	1-403-871-00	SIFT-2
T301	1-425-784-00	Take-off, TOT
T302	1-425-848-00	Burst Amplifier, BAT
T303	1-425-786-00	Band Pass, BPT
⚠T601	1-421-302-XX	Line Filter, LFT
T602	1-427-404-00	Sound Output, SOT
T801	1-439-176-00	Horizontal Output, HOT
T802	1-421-320-00	Pincushion Correction, PCT
T803	1-437-065-00	Horizontal Drive, HDT
T851	1-439-175-00	Flyback, FBT
T1501	1-421-245-00	Pincushion Correction, PCT

CAPACITORS

All capacitors are in μF and ceramic type unless otherwise noted. 50 V or less working voltages are omitted except for electrolytic type. (p = μμ, elect = electrolytic)

C102	1-121-257-11	4.7	16 V	elect (nonpolarized)
C151, C153, 154	1-102-121-11	0.0022		
C155	1-101-586-11	0.75 p		
C156	1-102-519-11	36 p		
C157	1-102-493-11	62 p		
C158, 159	1-102-121-11	0.0022		
C160	1-102-043-11	1000 p	500 V	feed-through
C161, 162	1-102-121-11	0.0022		
C163	1-102-941-11	4 p		
C205	1-121-404-11	33	25 V	elect
C206	1-102-529-11	100 p		
C207	1-101-886-11	62 p		
C208	1-102-121-11	0.0022		
C209, 210	1-102-676-11	68 p		
C211	1-121-651-11	10	16 V	elect
C212	1-102-121-11	0.0022		
C213	1-121-404-11	33	25 V	elect
C214	1-102-121-11	0.0022		
C216	1-102-973-11	100 p		
C217	1-121-651-11	10	16 V	elect
C218	1-102-121-11	0.0022		
C219	1-102-973-11	100 p		
C220	1-102-858-11	10 p		
C221	1-102-121-11	0.0022		
C223	1-102-121-11	0.0022		
C224	1-102-973-11	100 p		
C225	1-102-121-11	0.0022		
C226	1-121-651-11	10	16 V	elect
C227, 228	1-102-121-11	0.0022		
C229	1-121-450-11	2.2	50 V	elect
C230	1-108-630-12	0.022	100 V	mylar
C231	1-102-114-11	470 p		
C232	1-121-391-11	1	50 V	elect
C233	1-102-947-11	10 p		
C234	1-102-979-11	240 p		
C235	1-121-426-11	470	16 V	elect
C236	1-101-006-11	0.047		
C238	1-102-816-11	120 p		
C239	1-101-888-11	68 p		
C240	1-102-855-11	15 p		
C241	1-102-074-11	0.001		
C242	1-101-006-11	0.047		
C243	1-102-121-11	0.0022		
C244	1-121-651-11	10	16 V	
C246	1-108-626-12	0.01		
C248	1-121-951-11	0.47		
C253	1-102-074-11	0.001		
C255	1-108-618-12	0.0022	100	
C256, 257	1-102-121-11	0.0022		

Note: The shaded components are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description		
C259	1-121-479-11	22	16 V	elect
C261	1-108-638-12	0.1	100 V	mylar
C262, 282	1-102-121-11	0.0022		
C301	1-121-391-11	1	50 V	elect
C302	1-108-626-12	0.01	100 V	mylar
C303	1-108-614-12	0.001	100 V	mylar
C304	1-108-638-12	0.1	100 V	mylar
C305	1-101-888-11	68 p		
C306	1-101-004-11	0.01		
C307	1-102-980-11	270 p		
C308	1-108-638-12	0.1	100 V	mylar
C309	1-102-824-11	470 p		
C310	1-121-391-11	1	50 V	elect
C311	1-101-004-11	0.01		
C312	1-102-512-11	16 p		
C313	1-102-935-11	2 p		
C314	1-121-726-11	0.47	50 V	elect
C315	1-121-952-11	1	50 V	elect
C316	1-121-961-11	4.7	25 V	elect
C317	1-121-990-11	22	16 V	elect
C319	1-102-330-11	390 p		
C320	1-101-004-11	0.01		
C321	1-101-888-11	68 p		
C322	1-102-961-11	27 p		
C323, 324	1-101-004-11	0.01		
C325	1-121-479-11	22	16 V	elect
C326	1-101-004-11	0.01		
C327	1-102-888-11	150 p		
C329	1-101-004-11	0.01		
C330	1-102-121-11	0.0022		
C331	1-102-976-11	180 p		
C332	1-101-888-11	68 p		
C333	1-101-004-11	0.01		
C334	1-102-963-11	33 p		
C335	1-102-962-11	30 p		
C336	1-101-004-11	0.01		
C337	1-121-391-11	1	50 V	elect
C338~340	1-102-114-11	470 p		

Ref. No.	Part No.	Description		
C341	1-102-973-11	100 p		
C343	1-101-004-11	0.01		
C344	1-121-398-11	10	25 V	elect
C345	1-121-961-11	4.7	25 V	elect
C347	1-121-421-11	220	16 V	elect
C351	1-121-819-11	4.7	50 V	elect
C352, 353	1-121-391-11	1	50 V	elect
C354	1-121-404-11	33	25 V	elect
C355	1-121-416-11	100	25 V	elect
C356, 357	1-121-651-11	10	16 V	elect
C362	1-101-004-11	0.01		
C363	1-102-963-11	33 p		
C402	1-121-415-11	100	16 V	elect
C403	1-102-943-11	6 p		
C404	1-121-404-11	33	25 V	elect
C405, 406	1-102-858-11	10 p		
C407	1-121-391-11	1	50 V	elect
C408	1-102-816-11	120 p		
C409	1-121-409-11	47	16 V	elect
C410	1-121-398-11	10	25 V	elect
C411	1-121-404-11	33	25 V	elect
C412	1-121-402-11	33	10 V	elect
C414	1-102-121-11	0.0022		
C415	1-121-952-11	1	50 V	elect
C451	1-101-006-11	0.047		
C501	1-121-391-11	1	50 V	elect
C502, 503	1-108-622-12	0.0047	100 V	mylar
C504	1-121-245-11	1000	16 V	elect
C505	1-108-630-12	0.022	100 V	mylar
C506	1-108-638-12	0.1	100 V	mylar
C507	1-102-125-11	0.0047		
C508	1-121-738-11	10	50 V	elect
C509A, B	1-108-688-12	0.0047	200 V	mylar
C510	1-123-172-11	2.2	160 V	elect
C511	1-108-696-12	0.022	200 V	mylar
C512	1-121-479-11	22	16 V	elect
C513	1-123-153-11	330	50 V	elect
C514	1-108-640-12	0.15	100 V	mylar

Ref. No.	Part No.	Description		
C515	1-108-638-12	0.1	100 V	mylar
C516	1-108-618-12	0.0022	100 V	mylar
C517	1-108-630-12	0.022	100 V	mylar
C518	1-108-634-12	0.047	100 V	mylar
C519	1-108-614-12	0.001	100 V	mylar
C520	1-121-391-11	1	50 V	elect
C521	1-101-810-11	100 p	500 V	
C523	1-108-694-12	0.015	200 V	mylar
C525	1-121-391-11	1	50 V	elect
C526	1-121-970-11	47	16 V	elect
C527	1-108-632-12	0.033	100 V	mylar
C528	1-108-624-12	0.0068	100 V	mylar
C529	1-108-628-12	0.015	100 V	mylar
C530	1-121-450-11	2.2	50 V	elect
C531	1-129-927-11	0.015	100 V	polyethylene
C532	1-121-395-11	4.7	25 V	elect
C533	1-106-188-11	0.0047	100 V	mylar
C534	1-102-978-11	220 p		
C535	1-108-638-12	0.1	100 V	mylar
C536	1-102-989-11	68 p	500 V	
C537	1-121-955-11	10	50 V	elect
C538	1-121-971-11	100	16 V	elect
C539	1-121-416-11	100	25 V	elect
C540	1-108-702-12	0.068	200 V	mylar
C541	1-121-409-11	47	16 V	elect
C542	1-121-425-11	470	10 V	elect
C543	1-108-642-12	0.22	100 V	mylar
C545	1-101-888-11	68 p		
C546A, B	1-102-233-11	33 p	500 V	
C547	1-108-620-12	0.0033	100 V	mylar
C548	1-121-391-11	1	50 V	elect
C556, 557	1-108-632-12	0.033	100 V	mylar
C558	1-123-177-11	470	25 V	elect
C559~561	1-108-632-12	0.033	100 V	mylar
C562	1-121-391-11	1	50 V	elect
C601	1-108-746-12	0.15	125 V AC	mylar
C602~605	1-102-189-11	0.0047	150 V AC	
C606	1-125-099-11	560/10/10 (block)	200 V	elect

Ref. No.	Part No.	Description		
C607	1-101-810-11	100 p	500 V	
C608	1-121-726-11	0.47	50 V	elect
C609	1-101-810-11	100 p	500 V	
C610	1-102-030-11	330 p	500 V	
C611	1-121-396-11	4.7	50 V	elect
C612	1-121-997-11	33	100 V	elect
C613, 614	1-121-262-11	10	250 V	elect
C615	1-108-680-12	0.001	200 V	mylar
C616	1-123-116-11	1	160 V	elect
C701	1-105-767-13	0.15	200 V	mylar
C703	1-108-704-12	0.1	200 V	mylar
C705	1-130-032-11	0.1	1 kV	polyethylene
C706	1-102-030-11	330 p	500 V	
C707	1-121-759-11	4.7	250 V	elect
C708	1-102-327-11	330 p	1.5 kV	
C801	1-108-640-12	0.15	100 V	mylar
C802, 803	1-123-173-11	100	16 V	elect
C804	1-101-455-11	0.001		
C805, 806	1-108-626-12	0.01	100 V	mylar
C807	1-121-656-11	330	50 V	elect
C808	1-129-997-11	0.47	400 V	polyethylene
C809	1-123-024-11	33	160 V	elect
C810	1-108-632-12	0.033	100 V	mylar
C811	1-108-626-12	0.01	100 V	mylar
C812	1-102-327-11	330 p	1.5 kV	
C813	1-129-924-11	16000 p	1.5 kV	polyethylene
C814	1-130-041-11	27000 p	1 kV	polyethylene
C815A	1-130-051-11	35000 p	1 kV	polyethylene
C815B	1-129-925-11	33000 p	1 kV	polyethylene
C816	1-121-759-11	4.7	250 V	elect
C817	1-129-953-11	0.068	1.5 kV	polyethylene
C824	1-102-030-11	330 p	500 V	
C901, 902	1-102-327-11	330 p	1.5 kV	
C1501	1-108-640-12	0.15	100 V	mylar
CV201	1-141-138-XX	8 p		trimmer

Note: The shaded components are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	
		RESISTORS	
All resistors are in ohms. Regular-type ¼ W carbon resistors are omitted. Check schematic diagram for values. All adjustable and variable resistors have characteristic curve B, unless otherwise noted. k = 1000 M = 1000 k			
R153	1-244-861-11	330	½ W carbon
R238	1-244-859-11	270	½ W carbon
R365	1-211-417-11	22	⅛ W carbon (nonflammable)
R401	1-206-485-11	82	2 W metal oxide (nonflammable)
R402	1-206-481-11	56	2 W metal oxide (nonflammable)
R421	1-244-869-11	680	½ W carbon
R422	1-211-933-11	47	⅛ W carbon (nonflammable)
R509	1-206-656-11	470	2 W metal oxide (nonflammable)
R510	1-211-929-11	82	⅛ W carbon (nonflammable)
R511	1-244-875-11	1.2 k	½ W carbon
R512	1-211-930-11	33	⅛ W carbon (nonflammable)
R514, 515	1-212-361-11	1.2	1 W metal oxide (nonflammable)
R520	1-211-360-11	1	1 W carbon (nonflammable)
R521, 522	1-213-141-11	680	1 W metal oxide (nonflammable)
R534	1-213-144-11	1.2 k	1 W metal oxide (nonflammable)
R535	1-206-646-11	180	2 W metal oxide (nonflammable)
R537	1-206-654-11	390	2 W metal oxide (nonflammable)
R538	1-244-837-11	33	½ W carbon
R542	1-213-156-11	12 k	1 W metal oxide (nonflammable)
R551	1-244-873-11	1 k	½ W carbon
R555	1-213-132-11	120	1 W metal oxide (nonflammable)
R556	1-211-443-11	470	⅛ W carbon (nonflammable)
R561	1-213-130-11	82	1 W metal oxide (nonflammable)
R579	1-202-661-31	4.7 M	½ W composition
R580	1-202-663-31	5.6 M	½ W composition
R589	1-213-144-11	1.2 k	1 W metal oxide (nonflammable)
R591	1-213-138-11	390	1 W metal oxide (nonflammable)
R601	1-205-535-11	1	10 W cement coated
R602	1-213-144-11	1.2 k	1 W metal oxide (nonflammable)
R603	1-244-905-11	22 k	½ W carbon
R605	1-202-643-31	820 k	½ W composition
R606	1-244-915-11	56 k	½ W carbon
R609	1-211-929-11	82	⅛ W carbon (nonflammable)
R614	1-213-125-11	33	1 W metal oxide (nonflammable)
R618	1-213-125-11	33	1 W metal oxide (nonflammable)
R619	1-213-137-11	330	1 W metal oxide (nonflammable)
R620	1-206-682-11	5.6 k	2 W metal oxide (nonflammable)
R622	1-206-700-11	33 k	2 W metal oxide (nonflammable)
■ R629			¼ W carbon
R630	1-244-937-11	470 k	½ W carbon
R702	1-244-891-11	5.6 k	½ W carbon
R703	1-202-615-31	56 k	½ W composition
R708	1-202-641-31	680 k	½ W composition
R709	1-202-617-31	68 k	½ W composition
R710	1-202-637-31	470 k	½ W composition
R711	1-202-647-31	1.2 M	½ W composition

■ : factory selected value

Note: The shaded component is critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description		
R712	1-202-543-31	56	½ W	composition
R713	1-202-575-31	1.2 k	½ W	composition
R715	1-202-639-31	560 k	½ W	composition
R716	1-202-629-31	220 k	½ W	composition
R720～722	1-206-692-11	15 k	2 W	metal oxide (nonflammable)
R723～725	1-202-585-31	3.3 k	½ W	composition
R733	1-202-637-31	470 k	½ W	composition
R734	1-202-645-31	1 M	½ W	composition
R801	1-206-473-11	27	2 W	metal oxide (nonflammable)
R802	1-206-642-11	120	2 W	metal oxide (nonflammable)
R803	1-210-859-11	1.2	⅛ W	carbon (nonflammable)
R804	1-211-401-11	4.7	⅛ W	carbon (nonflammable)
R805, 806	1-210-859-11	1.2	⅛ W	carbon (nonflammable)
R807	1-205-532-11	3.3	10 W	cement coated
R808	1-211-421-11	39	⅛ W	carbon (nonflammable)
R809, 810	1-206-475-11	33	2 W	metal oxide (nonflammable)
R811	1-244-859-11	270	½ W	carbon
R812	1-206-469-11	18	2 W	metal oxide (nonflammable)
R813	1-217-287-11	1.2	5 W	wirewound (nonflammable)
R814	1-213-163-11	47 k	1 W	metal oxide (nonflammable)
R816	1-206-676-11	3.3 k	2 W	metal oxide (nonflammable)
R817	1-211-945-11	2.2 k	¼ W	carbon (nonflammable)
R818	1-244-897-11	10 k	½ W	carbon
R820	1-206-696-11	22 k	2 W	metal oxide (nonflammable)
R821	1-213-150-11	3.9 k	1 W	metal oxide (nonflammable)
◘R822			¼ W	carbon

◘ : factory selected value
※: to be selected

Ref. No.	Part No.	Description		
R851	1-202-784-31	4.7 k	1 W	composition
R901	1-205-533-11	91	40 W	cement coated
※R904	1-207-461-11	0.68	½ W	wirewound
	1-207-467-11	2.2	½ W	wirewound
	1-207-474-11	8.2	½ W	wirewound
R905	1-202-742-31	1 k	½ W	composition
R906	1-202-561-31	330	½ W	composition
VR201	1-224-642-XX	1 k, adjustable; TU.AGC		
VR301	1-224-644-XX	4.7 k, adjustable; ACC		
VR302	1-224-643-XX	2.2 k, adjustable; HUE		
VR303	1-221-389-XX	5 k, adjustable; B. BKG		
VR304	1-221-389-XX	5 k, adjustable; R. BKG		
VR305	1-221-389-XX	5 k, adjustable; G. BKG		
VR306	1-222-512-00	10 k, adjustable; CRT BIAS		
VR351	1-224-583-00	5 k, variable; SHARPNESS		
VR352	1-224-146-00	10 k, variable; HUE		
VR353	1-224-018-00	20 k, variable; COLOR		
VR354	1-224-583-00	5 k, variable; BRIGHT		
VR501	1-224-658-00	20 k, variable; V.HOLD		
VR502	1-222-807-XX	20 k, adjustable; V. SIZE		
VR503	1-221-970-XX	500, adjustable; V. CENT		
VR504	1-221-390-XX	3 k, adjustable; H. SHIFT		
VR505	1-221-982-XX	250 k, adjustable; H. AMP		
VR506	1-224-646-XX	22 k, adjustable; H. FREQ		
VR507	1-221-390-XX	3 k, adjustable; Y. BOW-1		
VR508	1-224-645-XX	10 k, adjustable; PIN BIAS		
VR509	1-221-389-XX	5 k, adjustable; PIN AMP		
VR510	1-224-647-XX	47 k, adjustable; ETC BIAS		
VR511	1-221-389-XX	5 k, adjustable; Y. BOW-2		
VR601	1-224-642-XX	1 k, adjustable; 135 V ADJ		
VR701	1-224-640-XX	330, adjustable; G. DRIVE		
VR702	1-224-640-XX	330, adjustable; R. DRIVE		
VR703	1-224-640-XX	330, adjustable; B. DRIVE		
VR704	1-224-150-00	1M, adjustable; SCRN		
VR705	1-224-173-00	2M, adjustable; FOCUS		
VR801	1-223-020-00	50, adjustable; H. CENT		

Note: The shaded components are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
VR851	1-224-774-00	90 M, adjustable; H. STAT
VR901/S901	1-224-710-00	50 k-D, variable; POWER PULL ON/VOLUME
VR902	1-224-259-XX	5 k, variable; PICTURE
	MISCELLANEOUS	
CF201	1-527-260-00	Ceramic Filter
DC851	1-453-071-00	High Voltage Rectifier Block
F601	1-532-272-XX	Fuse, 5 A
F602	1-532-271-XX	Fuse, 4 A
J901A, B	1-507-372-00	Jack, earphone
NE701, 702	1-519-127-00	Lamp, neon
NE901	1-519-108-XX	Lamp, neon; POWER/VHF
NE902	1-519-108-XX	Lamp, neon; UHF
NE903	1-519-108-XX	Lamp, neon; AUTO
S351	1-516-473-XX	Switch, slide; AFT
S451	1-514-897-00	Switch, pushbutton; AUTO
SG702~706, SG801	1-519-063-XX	Spark Gap
SP901	1-502-600-00	Speaker, 8 Ω
X301	1-527-154-00	Crystal
	1-452-032-00	Magnet, disk; 10 mm dia
	1-452-060-21	Magnet, compensation; BMC
	1-452-094-00	Magnet, rotatable disk; 15 mm dia
	1-526-086-XX	Socket, picture tube
	1-526-551-51	Cap, anode
	1-534-630-00	Coaxial Cable with Plug
	1-534-825-00	Coaxial Cable with Plug (included in antenna terminal board ass'y)
	1-534-885-00	Coaxial Cable with Plug
	1-536-441-00	Antenna Terminal Board Ass'y
	including;	
	1-534-825-00	Coaxial Cable with Plug
	1-536-497-00	Terminal Strip, 2-p
	1-551-153-31	Cord, power
	8-737-601-05	Picture Tube, 570DB22

Note: The shaded components are critical for safety. Replace only with part number specified.

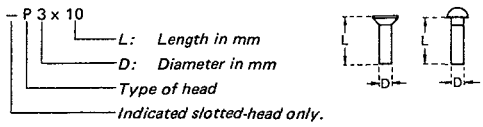
PACKING MATERIALS AND ACCESSORIES

Part No.	Description
X-3701-031-4	Warranty Card Ass'y
Y-2063-103-0	Antenna, loop (AN-15)
1-504-034-22	Earphone (ME-20B)
3-701-352-00	Bag, polyethylene
3-701-730-02	Bag, IBM card
3-793-898-21	Tag, material
4-319-541-00	Carton
4-319-542-00	Cushion, left; lower
4-319-543-00	Cushion, left; upper
4-319-544-00	Cushion, right; lower
4-319-545-00	Cushion, right; upper
4-319-546-00	Sheet, protection
4-491-039-12	Tag, VHF antenna
4-491-058-12	Tag, eye-catcher
4-491-107-22	Safety Tips
4-493-214-12	Card, caution
4-495-550-21	Manual, instruction
7-822-282-01	Card, IBM (white)
7-822-282-02	Card, IBM (pink)
7-822-282-03	Card, IBM (green)

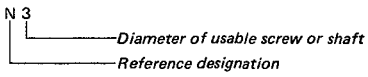
AN-16 = Y-2201-611-0

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	